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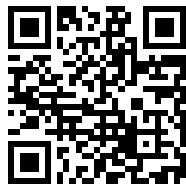


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Engineering

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FOR CLASSIFIED DIRECTORY OF ADVERTISEMENTS
FOR TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS
FOR KEY TO TELEGRAPHIC ADDRESSES

see page 3
" 43
" 64

THE NEW YORK
PUBLIC LIBRARY

~~P 64008~~

ASTOR LENOX AND
TILDEN FOUNDATIONS.
1900.

"ENGINEERING" DIRECTORY.

No. 28.—NEW SERIES.

COMPILED AND CLASSIFIED

FROM THE

CURRENT ADVERTISEMENTS

IN

"ENGINEERING;"

TOGETHER WITH THE

TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS

OF THE ADVERTISERS.

APRIL, 1899.

Offices:

"ENGINEERING," LIMITED,

35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

[ENTERED AT STATIONERS' HALL.]

Over 60,000 Copies of this Directory are distributed gratuitously
every year throughout the World.

— NOTICE. —

THE following Directory is compiled from the advertisement columns of "ENGINEERING," and is a reproduction, compact in book-form for handy reference, of the Advertisers' Directory, published at intervals in that Journal. This Special Edition is revised from time to time, and each number bears the date at which it is issued.

Full information as to the machines, appliances and manufactured produce comprised in this Directory, will be found in the columns of "ENGINEERING," in which Journal the advertisements referred to appear, either in consecutive issues or at intervals. This may be ascertained by referring to the Alphabetical Index on page 5 of the Advertisement Sheets in each week's issue.

Copies of this Directory are gratuitously sent to the **PRINCIPAL EMPLOYERS AND SHIPPERS OF MACHINERY** at home and abroad, to **FOREIGN AND BRITISH CONSULS** and to the **HEADS of DEPARTMENTS** of the **MOST IMPORTANT RAILWAYS** throughout the world; also to the **MEMBERS and ASSOCIATES** of the **INSTITUTIONS OF CIVIL AND MECHANICAL ENGINEERS**, the **IRON AND STEEL INSTITUTE**, and the other leading **SCIENTIFIC SOCIETIES** having any connection with the **ENGINEERING TRADES**. Thus, in addition to the advantages already secured to the Advertisers in "ENGINEERING," by its large and influential circulation, special facilities are afforded for bringing them and probable purchasers into direct communication.

At the end of this Directory will be found a **List of the registered Telegraphic Addresses**, **Key to same**, and **Telegraph Codes** in use by **Firms** now advertising in "ENGINEERING," also of the **Telephone Numbers** in their respective towns.

This Directory may be obtained gratis on application at the Offices of "ENGINEERING," 35 and 36, Bedford Street, Strand, London, W.C.

CLASSIFIED DIRECTORY
OF
CURRENT ADVERTISERS.

(Registered at the General Post Office as a Newspaper.)

ENGINEERING:

An Illustrated Weekly Journal.
EDITED BY WILLIAM H. MAW AND JAMES DREDGE.

OFFICES FOR ADVERTISEMENTS AND PUBLICATION, 35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

VOL. LX.—No. 1562.]

LONDON: FRIDAY, DECEMBER 6, 1895.

[Price: 6d. Per Post, 9d.]

HIGHEST AWARDS, CHICAGO, 1893.
Francis and Co., Ltd.,
Manufacturers of
Portland Cement.
As supplied to Government, London County Council, and
Esplanade 19th House. Sold under trademark
Blue Star Brand. Established 1870. Head Office,
180, Philadelphia, 179, Park, 170, Chelsea, 180,
London, 180, Coal Street, 180, Chancery, 180,
Tottenham, London, E.C. Telephone, 180.
Rugby Portland Cement
CONCRETE
MANUFACTURERS OF
Portland Cement
Of the Unrivalled Strength and Best
Quality. Manufactured by F. C. BARON & CO.,
8, R. KIDNEY'S COURT, PADDY, E.C. and Pains
West, Warrington, Lancs.
Portland Cement of the Best
Quality, manufactured by F. C. BARON & CO.,
8, R. KIDNEY'S COURT, PADDY, E.C. and Pains
West, Warrington, Lancs.

Earle's
Cement.

Normand's
PATENT WATER TUBE BOILERS.
See Illustrated Advt., last week, page 30, 1895.

Johnson & Phillips, Telegraph
and ELECTRIC LIGHT ENGINEERS.
Head Office, 10, Broad Street, E.C. Works and
Branches at Chatham, Kent, and elsewhere.
Masters of Machinery, &c., for complete equipment of
Cable Stations and Telegraph Lines. Latest
Systems of all kinds.
Decauville's "Light Railway,"
Copies from 1895, 1896, 1897, 1898, 1899, 1900, 1901,
1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910,
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THE NEW YORK
PUBLIC LIBRARY.

ASTOR, LENOX AND
TILDEN FOUNDATIONS.

"ENGINEERING" DIRECTORY.

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No. 28.—NEW SERIES.  
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COMPILED AND CLASSIFIED
FROM
THE CURRENT ADVERTISEMENTS
IN
"ENGINEERING,"
TOGETHER WITH THE
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS
OF THE ADVERTISERS.

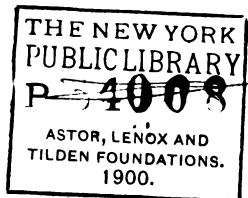
APRIL, 1899.

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Offices:

"ENGINEERING," LIMITED,

35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.

Q. M.

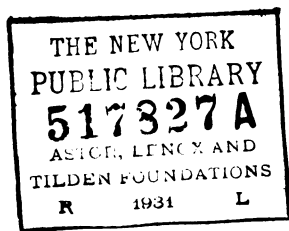


Telegraphic Address of "ENGINEERING,"

ENGINEERING, LONDON.

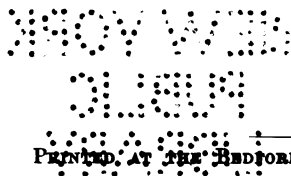
A B C Code used.

Telephone No. 3663 Gerrard.



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PRINTED AT THE BEDFORD PRESS, 20 AND 21, BEDFORDSBURY, LONDON, W.C.

The Publisher would esteem it a favour if persons using this Directory would make reference thereto in their Correspondence with Manufacturers.

CLASSIFIED DIRECTORY

OF

CURRENT ADVERTISEMENTS in "ENGINEERING."

Agricultural Machinery.

Clayton & Shuttleworth ..	Lincoln
Davey, Paxman & Co., Ltd.	Colchester
Foster W., & Co., Ltd.	Lincoln
Fowler J. & Co. (Leeds), Ltd.	Leeds
Garrett R., & Sons, Ltd.	Leiston Works, Suffolk
Hornsby R., & Sons, Ltd.	Grantham
Marshall, Sons & Co., Ltd.	Gainsborough
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Turner E. R. & F., Ltd.	(182) Ipswich

Air Compressors.

Adam J. M., & Scott ..	Ibroy Ironwks., Glasgow
Allis Edward P., Co.	Milwaukee, Wis., U.S.A.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Belliss G. E., & Co., Ltd.	Ledsam St. Works, Birmingham
Brotherhood P. ..	Belvedere Rd., S.E.
Coles H. J. ..	London Crane Works, Derby
Craig A. F., & Co., Ltd.	Paisley, N.B.
Elworthy H. S. ..	239, Dashwood House, New Broad St., E.C.
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Hathorn, Davey & Co. ..	Leeds
Hughes & Lancaster ..	47, Victoria St., Westminster, S.W.
Humboldt Engineering Works Co. ..	Kalk, near Cologne
Hydro-Kinetic Engineering Syndicate, Ltd. ..	Corporation St., Birmingham
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Körting Brothers ..	53, Victoria St., Westminster, S.W.
Leads Engineering & Hydraulic Co. ..	Providence Works, Cross Stamford St., Leeds
Maudslay, Sons & Field, Ltd.	Lambeth, S.E.
Reader E., & Sons ..	Phoenix Wks., Nottingham
Schram Richard, & Co. ..	Cannon St. House, E.C.
Scott Geo., & Son ..	44, Christian St., E.
Taitte, Howard & Co., Ltd.	63, Queen Victoria St.
Thwaites Bros., Ltd.	Bradford [E.C.]
Vauxhall Ironworks Co., Ltd. ..	Wandsworth Rd., S.W.
Wailles George, & Co. ..	268, Euston Rd., N.W.
Walker Brothers ..	Pagelfield Ironworks, Wigan
Westinghouse Brake Co., Ltd. ..	York Rd., King's Cross, N.

Air Pumps.

Belliss G. E., & Co., Ltd.	Ledsam St. Works, Birmingham
Edwards Air Pump Syndicate, Ltd. ..	3, Crown Court, Old Broad St., E.C.

Alloys.—(See Metals, &c.)

Aluminium.

British Aluminium Co., Ltd.	9, Victoria St., Westminster, S.W.
Crosier, Stephens & Co. ..	2, Collingwood St., Newcastle-on-Tyne

Anchor.

Abbot John, & Co., Ltd.	Park Works, Gateshead-Sheffield
Jessop W., & Sons, Ltd.	[on-Tyne
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Steel Co. of Scotland, Ltd. ..	23, Royal Exchange Square, Glasgow
Wright Joseph, & Co. ..	Tipton

Ammeters.

Nalder Bros. & Thompson	34, Queen St., E.C.
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Anvils.

Linley & Bingham ..	Clough Works, Sheffield
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Arbitrators.

Kirk W., Price & Goulty ..	49, Queen Victoria St., E.C.; and Albert Sq., Manchester
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Armour Plates.

Brown John, & Co., Ltd.	Sheffield
Cammell Charles, & Co., Ltd.	Cyclops Steel & Iron Works, Sheffield
Vickers, Sons & Maxim, Ltd.	Sheffield

Asbestos Goods, Fittings, &c.

Asbestos Co., Ltd. (Bell's) ..	59½, Southwark St., S.E.
Asbestos Co., Ltd. (The United) ..	Dock House, Billiter St., E.C.
Bender & Martiny ..	28, Gracechurch St., E.C.
Billington & Newton House & Co., Ltd. ..	Longport, Staffordshire
	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Smith Brothers & Co.	Hyson Green Works, [Nottingham]
Toope's Asbestos Covering Co., Ltd. ..	Stepney Sq., Stepney, E.
Wallach Bros. ..	57, Gracechurch St., E.C.
Witty & Wyatt, Ltd. ..	88, Leadenhall St., E.C.

Ash Ejectors.

Trewent F. J. 43, Billiter Buildings,
Billiter St., E.C.

Auctioneers (Engineering).

Fuller, Horse, Sons & Cassell 11, Billiter Square, E.C.
Kirk W., Price & Goulty .. 49, Queen Victoria St.,
E.C.; and Albert Sq.,
Manchester

Axles.

Brown, Bayley's Steel
Works, Ltd. .. Sheffield
Brown John, & Co., Ltd. .. Sheffield
Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield
Fox Samuel, & Co., Ltd. .. Stocksbridge Works, near
Sheffield
Hadfield's Steel Foundry
Co., Ltd. .. Hecla Works, Sheffield
Jessop W., & Sons, Ltd. .. Sheffield
Patent Shaft & Axletree
Co., Ltd. .. Wednesbury
Picking R. Y., & Co., Ltd. Wishaw, near Glasgow
Woodhouse & Rixson .. Sheffield

Ball Bearings.

Auto Machinery Co., Ltd. Coventry

Barrows.

Mackies Ltd. Berks Ironw'ks, Reading

Bars (Steel and Iron).

Abbot John, & Co., Ltd. .. Park Works, Gateshead-
on-Tyne (Glasgow
Beardmore William, & Co. Parkhead Ironworks,
Sheffield
Brown, Bayley's Steel
Works, Ltd. .. Sheffield
Brymbo Steel Co., Ltd. .. Wrexham
Colville David, & Sons, Ltd. Motherwell, near Glasgow
Ebbw Vale Steel Iron &
Coal Co., Ltd. .. Mon., South Wales
Glasgow Iron & Steel Co., Ltd. 36, St. Vincent Place,
Glasgow
Hadfield's Steel Foundry
Co., Ltd. .. Hecla Works, Sheffield
Jackson P. R., & Co., Ltd. Salford Rolling Mills,
Manchester

Jessop W., & Sons, Ltd. .. Sheffield
Lancashire Steel Co., Ltd. Motherwell, N.B.
Leeds Forge Co., Ltd. .. Leeds
Leeds Steel Works, Ltd. .. Leeds [well
Miller A. & T. .. Globe Ironworks, Mother-
Paterson, Downs & Jardine .. Coats Iron & Steel Works,
Coatbridge, N.B.

Shelton Iron, Steel & Coal } Stoke-on-Trent, & 122,
Co., Ltd. .. } Cannon St., E.C.
Spencer John, & Sons, Ltd. Newburn Steel Works,
Newcastle-on-Tyne

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq.,
Glasgow

Weardale Iron & Coal } George Yard, Upper
Co., Ltd. .. } Thames St., E.C.

Wearside Iron & Coal } Clifton Bridge Mills,
Co., Ltd. .. } Brighouse

Wearside Iron & Coal } Clifton Bridge Mills,
Co., Ltd. .. } Brighouse

Bearings (Oilless Carbonated).

Fleming, Birkby & Goodall, } Clifton Bridge Mills,
Ltd. .. } Brighouse

Bearings (Roller).

Roller-Bearings Co., Ltd. .. 1, Delahay St., West-
minster, S.W.

Belt Adjusters.

Wallach Bros. 57, Gracechurch St., E.C.

Belt Fasteners.

Bifurcated Rivet Co., Ltd. 10, Wool Exchange, E.C.
Chase Wm. H. 16, Little Trinity Lane,
E.C.

Belting (Leather, Canvas, &c.).

Best Belting Co., Ltd. .. 13, Cullum St., E.C.
Cole Henry A., & Co. .. Coronet Wks., Liverpool
Dick R. & J. Greenhead Wks., Glasgow
Fleming, Birkby & Goodall,
Ltd. .. West Grove Mill, Halifax
Gandy's Belt Manufg. Co., } Wheatland Works, Sea-
Ltd. .. } combe, Cheshire
Gehrens C. Otto Grosse Backerstrasse,
India Rubber, Gutta Percha } [12, Hamburg
& Telegraph Works Co.,
Ltd. .. Silvertown, Essex
Ipswich Tannery, Ltd. .. Ipswich, Suffolk
Jardine J. Nottingham
Lancashire Patent Belting
and Hose Co. .. Manchester
Moseley David, & Sons .. Ardwick, Manchester
Okes J. C. R. 63, Queen Victoria St., E.C.
Price's Patent Candle Co., } Queen St. (Bradford),
Ltd. .. } Manchester
Southwark Manufacturing } 73A, Southwark Bridge
Co. .. } Rd., S.E. [Glasgow
Tullis John, & Son .. St. Ann's Leather Works,
Wallach Bros. 57, Gracechurch St., E.C.
Webb & Son Combs Tannery, Stow-
market
Willcox W. H., & Co., Ltd. 23, Southwark St., S.E.

Bleaching Machinery.

Coates Victor, & Co., Ltd. Lagan Foundry, Belfast
Edmeston A., & Sons .. Cannon St. Wks., Salford

Blinds.

Laycock W. S. Victoria Works, Sheffield

Blowers.—(See Fans.)**Boiler Compositions.—(See Disincrustants.)****Boiler Coverings.—(See Non-conducting Compositions.)****Boiler Furnaces.**

Brown John, & Co., Ltd. .. Sheffield
Donkin B., & Co., Ltd. .. Southwark Park Rd., S.E.
Leeds Forge Co., Ltd. .. Leeds
Meldrum Bros. 10, City Rd., Manchester

Boiler Insurance Companies.

Vulcan Boiler & General
Insurance Co., Ltd. .. 67, King St., Manchester

Boiler Manholes.

Galloways Ltd. Manchester
Jackson P. R., & Co., Ltd. Salford Rolling Mills,
Leeds Forge Co., Ltd. .. Leeds [Manchester
M'Neil C. Kinning Park Ironworks,
Glasgow
Piggott Thos., & Co., Ltd. Springhill, Birmingham

Boiler Mountings.

Asbestos Co., Ltd. (Bell's) 59, Southwark St., S.E.
Bailey W. H., & Co., Ltd. Albion Works, Salford,
Manchester

Boiler Mountings.—Continued.

Billington & Newton	Longport, Staffordshire
Crosby Steam Gage & Valve Co.	75, Queen Victoria St., E.C.
Empire Engineering Co.	Falsworth, Manchester
Green & Boulding	105, Bunhill Row, E.C.
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester
Lunkenheimer Co.	Cincinnati, Ohio, U.S.A.
National Boiler & General Insurance Co., Ltd.	22, St. Ann's Square, Manchester
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Boyle J. J.	Gt. Bridgewater St., Manchester
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Smith Brothers & Co.	Hyson Green Works, Nottingham
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Storey I., & Sons	Knott Mill, Manchester
Thornycroft J. I., & Co.	Chiswick, W.
Treasure J. B., & Co.	8, Vauxhall Rd., Liverpool
Turnbull Alex., & Co.	Bishopbriggs, Glasgow
Wallach Bros.	57, Gracechurch St., E.C.

Boilers (Petroleum).

Green & Boulding	105, Bunhill Row, E.C.
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Boilers (Steam).

Abbot John, & Co., Ltd.	Park Works, Gateshead-on-Tyne
Abbott & Co. (Newark), Ltd.	Newark-on-Trent
Alley & Maclellan	Sentinel Works, Glasgow
Anderton A., & Sons	Antley Boiler Works
Bellamy John	Millwall, E. (Acorington Exeter)
Bodley Brothers & Co.	Thistle Works, Paisley
Bow, McLachlan & Co.	Govan, Glasgow
Burnet L., & Co.	Thetford
Burrell C., & Sons, Ltd.	Soho Engine Wks., Paisley
Campbell & Calderwood	
Central Marine Engine Works	West Hartlepool
Chaplin Alex., & Co.	Govan, Glasgow
Coates Victor, & Co., Ltd.	Lagan Foundry, Belfast
Cochran & Co.	Birkenhead
Coltman H., & Sons	Midland Ironworks, Loughborough
Oraig A. F., & Co., Ltd.	Paisley, N.B.
Davey, Paxman & Co., Ltd.	Colchester
Day, Summers & Co.	Northam Ironworks, Southampton (Lynn)
Dodman Alfred, Ltd.	Highgate Works, King's
Evans & Widowfield	5, Bute Crescent, Cardiff
Foster W., & Co., Ltd.	Lincoln
Fowler J., & Co. (Leeds), Ltd.	Leeds
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Fraser, John, & Son	Millwall Boiler Works, E.
Galloways Limited	Manchester
Garrett R., & Sons, Ltd.	Leiston Works, Suffolk
Grange Iron Co., Ltd.	Durham
Grantham Crank & Iron Co., Ltd.	Grantham
Hanna, Donald & Wilson	Paisley, N.B.
Hartley & Sudgen, Ltd.	Halifax
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne (ton)
Hayes Edward	Stony Stratford, Wolver-
Hornsby, R. & Sons, Ltd.	Grantham

Boilers (Steam).—Continued.

Humboldt Engineering Works Co.	Kalk, near Cologne
Iscia Foundry & Engineering Co.	Newport, Mon.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Kincaid John G., & Co.	Greenock, Scotland
Leeds Forge Co., Ltd.	Leeds [chester
Lees T. & R.	Hollinwood, near Man-
Manlove, Alliot & Co., Ltd.	Nottingham
Marshall, Sons & Co., Ltd.	Gainsborough
Maudslay, Sons & Field, Ltd.	Lambeth, S.E. [Glasgow
McKie & Baxter	Copland Works, Govan,
Mumford A. G.	Culver St. Ironworks, Colchester [Glasgow
Napier Brothers, Ltd.	100, Hyde Park St.,
Norman John	131A, St. Vincent St., Glasgow
Normand A., & Co.	28, Victoria St., S.W.
Olick L., & Co.	27, Leadenhall St., E.C.
Penman & Co.	377, Dalmarock Rd., Glasgow
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Plenty & Son, Ltd.	Eagle Ironwks., Newbury,
Ransomes, Sims, & Jefferies, Ltd.	[Berks Ipswich
Robertson & Outram	28, Victoria St., S.W.
Robey & Co., Ltd.	Lincoln
Rose, Downs & Thompson, Ltd.	Hull
Ross & Duncan	Glasgow
Royal Dutch Forge Co.	Leiden, Holland
Russell Geo., & Co.	Motherwell, near Glasgow
Ruston Proctor, & Co., Ltd.	Sheaf Ironworks, Lincoln
Schram Richard, & Co.	Cannon St. House, E.C.
Sinclair George	Albion Boiler Works,
Smedley Brothers, Ltd.	Belper [Leith, N.B.
Smit P., Jr.	Rotterdam, Holland
Smith A. & W., & Co., Ltd.	Eglington Engine Works, Glasgow
Société Anonyme des Ateliers de Construction de La Meuse	Liege, Belgium [field
Spurr, Inman & Co., Ltd.	Railway Ironwks., Wake-
Tanges Limited	Cornwall Works, Bir-
Thompson John	mingham [hampton
Thornycroft J. I., & Co.	Ettingshall, Wolver-
Tinker, Shenton & Co.	Chiswick, W.
Toward T., & Co.	Hyde, near Manchester
Turner E. R. & F., Ltd.	Ouseburn, Newcastle-on-
Vosper & Co., Ltd.	(132) Ipswich [Tyne
Walker Brothers	Portsmouth
Whitmore & Binyon	Pagefield Ironwks. Wigan
Yarrow & Co., Ltd.	Wickham Market; and
Yates & Thom	64, Mark Lane, E.C.
	Poplar, E.
	Blackburn, Lancashire

Boilers (Water-tube).

Coulthard T., & Co.	Preston
Hornsby R., & Sons, Ltd.	Grantham
Maudslay, Sons & Field, Ltd.	Lambeth, S.E.
Mirrlees, Watson & Yarrow Co., Ltd.	Scotland St., Glasgow
Normand A., & Co.	28, Victoria St., S.W.
Robertson & Outram	28, Victoria St., S.W.
Thornycroft J. I., & Co.	Chiswick, W.
White J. Samuel, & Co., Ltd.	Medina Dock, Cowes
Yarrow & Co., Ltd.	Poplar, E.

Bolt Forcers.

Tangyes Limited Cornwall Works, Birmingham

Bolt and Nut Making Machinery.

Greenwood & Batley, Ltd. Albion Works, Armley Rd., Leeds
Platt Samuel Wednesbury

Bolts, Rivets, Nuts, Screws, &c.

Armstrong, Stevens & Son Whittall St., Birmingham
Clyde Rivet Works Co. .. Glasgow
Galloways Limited Manchester
MacLellan P. & W., Ltd. Clutha Ironwks., Glasgow
Phoenix Bolt & Nut Co. .. Handsworth, near Birmingham

Boring Tools and Machinery.

Warner R., & Co. 97, Queen Victoria St., E.C.

Brakes (Railway).

Westinghouse Brake Co. } Canal Rd., King's
Ltd. } Cross, N.

Brass Founders and Brass Finishers.

Abbot John, & Co., Ltd. .. Park Works, Gateshead-on-Tyne
Asbestos Co., Ltd. (Bell's) 594, Southwark St., S.E.
Bailey W. H., & Co., Ltd. Albion Works, Salford,
Baker Blower Engineering } Manchester
Co. } Stanley Works, Sheffield
Billington & Newton .. Longport, Staffordshire
Bodley Brothers & Co. .. Exeter
Broughton Copper Co., Ltd. Manchester
Crosby Steam Gage & Valve Co. 75, Queen Victoria St., E.C.
Empire Engineering Co. .. Failsworth, Manchester
Hunter & English Bow, London, E.
Longsdon A. & W. Waterloo Ironwks., Poole
Lunkenheimer Co. Cincinnati, Ohio, U.S.A.
Morton Francis, & Co., Ltd. Hamilton Ironworks, Garston
Piggott Thos., & Co., Ltd. Springhill, Birmingham
Fulsometer Engineering Co., Ltd. Nine Elms, S.W. [E.
Rhodes B., & Son Bow Brass Wks., London,
Schäffer & Budenberg .. Whitworth St., London Rd., Manchester
Scott Ernest, & Mountain, } Close Works, Newcastle-
Ltd. } on-Tyne
Smith Sydney, & Sons .. Basford Brass Works, Nottingham
Steven & Struthers Glasgow
Storey I., & Sons Knott Mill, Manchester

Bread-Making Machinery.

Drysdale & Co. Bon Accord Eng. Wks., Glasgow [E.C.
Hayward-Tyler & Co. .. 90 & 92, Whitecross St.,
Werner, Pfeiderer & Per- } 117, Queen Victoria St.,
kins, Ltd. } E.C.

Brewery Plant.

Coates Victor, & Co., Ltd. Lagan Foundry, Belfast
Hunter & English Bow, London, E.
Longsdon A. & W. Waterloo Ironwks., Poole
Moreland Richard, & Son, Ltd. 3, Old St., E.C.
Pontifex & Wood, Ltd. .. Union Foundry, Derby

Brick and Tile-Making Machinery.

Bradley & Craven, Ltd. .. Westgate Common Foundry, Wakefield
Coates Victor, & Co., Ltd. Lagan Foundry, Belfast
Johnson William, & Sons .. Castleton Foundry, Armley, Leeds
Smith F. L., & Co. .. Palace Ch'mb'rs, 9, Bridge St., Westminster, S.W.

Bricks.

Burham Brick, Lime & Cement Co., Ltd. .. 7, Nicholas Lane, E.C.
Glenboig Union Fire Clay Co., Ltd. .. 48, West Regent St., Glasgow
Sankey J. H., & Son .. Canning Town, E.

Bridge Foundation Cylinders.

Clay Cross Co. Clay Cross, near Chester
Hanna, Donald & Wilson .. Paisley [field
Isca Foundry & Engineering Co. Newport, Mon.

Bridges.

Arrol Sir William, & Co., Ltd. .. Dalmarnock Ironworks, Bridgeton, Glasgow
Arrol's Bridge & Roof Co., Ltd. Germiston Wks., Glasgow
Ashbury Railway Carriage & Iron Co., Ltd. Openshaw, Manchester
De Bergue & Co., Ltd. .. Manchester
Findlay Alexander, & Co. Motherwell, N.B.
Handyside Andrew, & Co., Ltd. .. Derby
Hanna, Donald & Wilson .. Paisley
Heenan & Froude Manchester [Dudley
Hill & Smith Brierley Hill Ironwks., nr. Greenock, N.B.
Houston J. & R. Newport, Mon.
Isca Foundry & Engineering Co. .. Hamilton Ironworks, Garston
Morton Francis, & Co., Ltd. .. Wednesbury [Glasgow
Patent Shaft & Axletree Co., Ltd. Eglinton Engine Works, Glasgow
Smith A. & W., & Co., Ltd. Pagefield Ironwks., Wigan
Walker Brothers

Buffers.

Brown John, & Co., Ltd. .. Sheffield
Midland Railway Carriage and Wagon Co., Ltd. .. Abbey Wks., Shrewsbury
Spencer John, & Sons, Ltd. Newburn Steel Works, Newcastle-on-Tyne
Turton T., & Sons, Ltd. .. Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy John Millwall, E.

Cable Making and Wire Covering Machinery.

Johnson and Phillips .. Victoria Works, Old Charlton, Kent

Cables (Electric Light, Telegraph and Telephone).

Dennis W. F., & Co. .. 23, Billiter St., E.C.
Johnson & Phillips .. 14, Union Court, Old Broad St., E.C.
Johnson & Phillips' Electric Cable Works Old Charlton, Kent

Cameras.

Thornton-Pickard Manufacturing Co., Ltd. . . . Altrincham

Capstans (Hydraulic).

Berry Henry, & Co., Ltd. . . Croydon Works, Leeds
Fielding & Platt, Ltd. . . Gloucester

Carbons for Electrical Purposes (Manufacturers of).

Johnson & Phillips . . . 14, Union Court, Old Broad St., E.C.

Carriage (Railway) Builders.

Ashbury Railway Carriage and Iron Co., Ltd. . . Openshaw, Manchester
Hurst, Nelson & Co., Ltd. . . Glasgow Rolling Stock and Plant Works, Motherwell
MacLellan P. & W., Ltd. . . Clutha Works, Glasgow
Metropolitan Railway Carriage & Wagon Co., Ltd. . . Saltley Wks., Birmingham
Midland Railway Carriage and Wagon Co., Ltd. . . Abbey Wks., Shrewsbury
Oldbury Railway Carriage and Wagon Co., Ltd. . . Oldbury Works, near Birmingham

Carriage (Railway) Fittings.

Laycock W. S. . . . Victoria Works, Sheffield

Case Hardening Compositions.

Palfreyman W. H., & Co. . . 17, Goree-Piazzas, Liverpool

Castings (Iron).

Abbot John, & Co., Ltd. . . Park Works, Gateshead-on-Tyne
Baker Blower Engineering Co. . . Stanley Works, Sheffield
Bodley Brothers & Co. . . Exeter
Bow, McLachlan & Co. . . Thistle Works, Paisley
Clay Cross Co. . . Clay Cross, nr Chester
Coltman H., & Sons . . Midland Ironworks, Loughborough
Craig A. F., & Co., Ltd. . . Paisley, N.B.
Darlington Forge Co., Ltd. . . Darlington [Derby
Handyside A., & Co., Ltd. . . Britannia Ironworks, Bow, London, E.
Hunt & English . . .
Isca Foundry & Engineering Co. . . Newport, Mon. [Chester
Jackson P. R., & Co., Ltd. . . Salford Rolling Mills, Man-
Mackies Ltd. . . Berk Ironworks, Reading
Midland Railway Carriage & Wagon Co., Ltd. . . Abbey Wks., Shrewsbury
Morton Francis, & Co., Ltd. . . Hamilton Ironworks, Garston
Piggott Thos., & Co., Ltd. . . Springhill, Birmingham
Storey I. & Sons . . Knott Mill, Manchester
Wales George, & Co. . . 258, Euston Rd., N.W.
Wallwork Henry, & Co. . . Charter St., Manchester
Young H., & Co., Ltd. . . Eccleston Ironworks, Pimlico, and Hayle Foundry Wharf, Nine Elms, S.W.

Castings (Malleable Iron).

Hadfield's Steel Foundry Co., Ltd. . . Hecla Works, Sheffield
Handyside A., & Co., Ltd. . . Britannia Ironworks, D'rbury
Parker Foundry Co. . . Derby [ham
Tangyes Limited . . . Cornwall Wks., Birmingham
Wallwork Henry, & Co. . . Charter St., Manchester

Castings (Steel).

Allen Edgar, & Co., Ltd. . . Imperial Steel Works, Sheffield [Sheffield
Askham Bros. & Wilson, Ltd. . .
Baker Blower Engineering Co. . . Stanley Works, Sheffield
Bessemer Henry, & Co., Ltd. . . Sheffield
Brown, Bayley's Steel Works, Ltd. . . Sheffield
Brown John, & Co., Ltd. . . Sheffield [Sheffield
Cammell Chas., & Co., Ltd. . . Cyclops Steel & Iron Wks., Darlington
Fairley James, & Sons . . Shadwell St., Birmingham
Firth Thos., & Sons, Ltd. . . Norfolk Works, Sheffield
Hadfield's Steel Foundry Co., Ltd. . . Hecla Works, Sheffield
Jackson P. R., & Co., Ltd. . . Salford Rolling Mills, Sheffield [M'chester
Jessop Wm., & Sons, Ltd. . .
Osborn S., & Co. . . Sheffield
Parker Foundry Co. . . Derby
Reichwald August . . . 9, New Broad St., E.C.; and Lombard St., Newcastle-on-Tyne
Rogerson John, & Co., Ltd. . . Wolsingham, R.S.O., Co. Durham
Spencer John, & Sons, Ltd. . . Newburn Steel Works, Newcastle-on-Tyne
Steel Co. of Scotland, Ltd. . . 23, Royal Exchange Square, Glasgow
Vickers, Sons & Maxim, Ltd. . . Sheffield
Weardale Iron & Coal Co., Ltd. . . George Yard, Upper Thames St., E.C.

Cement.

Barron F. C., & Co. . . 9, St. Mildred's Court, Burham Brick, Lime, & Cement Co., Ltd. . . [Poultry, E.C.
Francis & Co., Ltd. . . 7, Nicholas Lane, E.C.
Greaves, Bull & Lakin . . 4, Eastcheap, E.C.
Rugby Portland Cement Co. . . Warwick
Sankey J. H., & Son . . Rugby, Warwickshire
Canning Town, E.

Cement-Making Plant.

Dell Wm. R., & Son . . 26, Mark Lane, E.C.
Grusonwerk . . . Magdeburg-Buckau
Johnson Wm., & Sons . . Castleton Foundry, Arm-
Pulsometer Engineering Co., Ltd. . . [ley, Leeds
Smith F. L., & Co. . . Nine Elms, S.W.
Stamm W. (Grusonwerk) . . Palace Ch'mb'rs, 9, Bridge St., Westminster, S.W.
Whitmore & Binyon . . 25, College Hill, E.C.
Wickham Market; & 64, Mark Lane, E.C.

Centrifugal Drying Machines.

Manlove, Alliott & Co., Ltd. . . Nottingham
Mirreles, Watson & Yaryan Co. Ltd. . . Scotland St., Glasgow
Pott, Cassels & Williamson . . Motherwell, nr. Glasgow

Chains and Cables.

Abbot John, & Co., Ltd. . . Park Works, Gateshead-on-Tyne
Dempster, Moore & Co. . . 49, Robertson St., Glas'w
Wright Jos., & Co. . . Tipton, Staffordshire

Chemical Works (Plant for).

Piggott Thos., & Co., Ltd. . . Birmingham

Chemicals.

Aston Chemical Co. .. Birmingham

Chemists (Consulting).

Elworthy H. S. .. 239, Dashwood House,
New Broad St., E.C.

Clocks.

M'Innes T. S., & Co., Ltd. .. 42, Clyde Place, Glasgow

Cloth Finishing Machinery.

Craig A. F., & Co., Ltd. .. Paisley, N.B.

Clutches (Friction).

Bagshaw J., & Sons, Ltd. .. Batley
Bridge D., & Co. .. King St. Engine Works,
Salford, Manchester

Brooke J. W., & Co., Ltd. .. Adrian Ironwks., Lowest-
toft

Champion Friction Clutch } Trent St., Attercliffe,
Co., Ltd. .. Sheffield

Coil Clutch & Pulley Co.,
Ltd. .. Broad St. House, E.C.

Cowlishaw, Walker & Co.,
Ltd. .. Etruria, Stoke-on-Trent

Edmeston A., & Sons .. Cannon St. Wks., Salford,
Manchester

Napier Brothers, Ltd. .. 100, Hyde Park St.,
Glasgow [Staffs.]

Shore T., & Sons .. Albion Foundry, Hanley,
Walker Brothers .. Pagefield Ironwks., Wigan

Coal Washing and Screening Plant.

Humboldt Engineering } Kalk, near Cologne, Ger-
Works Co. .. many

Cooks.—(See Valves, Gas, Steam, Water, &c.)**Coffee Machinery.**

Campbell & Calderwood .. Soho Engine Wks., Paisley
Waygood E., & Co., Ltd. .. Falmouth Rd., S.E.

Coke.

Eveson Coal & Coke Co., Ltd. Birmingham

Colleges and Schools.

Electrical & General Engi- } Penywn House, 2 & 4,
neering College .. Penywn Rd., Earl's
Court, S.W.

Colliery Plant.

Abbot John, & Co., Ltd. .. Park Works, Gateshead-
Brown Hoisting & Convey- } on-Tyne
ing Machine Co. .. Cleveland, Ohio, U.S.A.
Clay Cross Co. .. Clay Cross, near Chester-
field

Evans & Widowfield .. 5, Bute Crescent, Cardiff
Grange Iron Co., Ltd. .. Durham

Hadfield's Steel Foundry
Co., Ltd. .. Hecla Works, Sheffield

Hathorn, Davey & Co. .. Leeds
Hornby, R. & Sons, Ltd. .. Grantham

Humboldt Engineering } Kalk, near Cologne, Ger-
Works Co. .. many

Iscia Foundry & Engineer-
ing Co. .. Newport, Mon. [field
Jessop Wm., & Sons, Ltd. Brightside Works, Shef-
Walker Brothers .. Pagefield Ironwks., Wigan

Colliery Proprietors.

Brown John, & Co., Ltd. .. Sheffield
Clay Cross Co. .. Clay Cross, near Chester-
Ebbw Vale Steel, Iron & } field
Coal Co., Ltd. .. Mon., South Wales
Glasgow Iron & Steel Co.,
Ltd. .. 36, St. Vincent Pl., Glasg'w

Compasses.

Negretti & Zambra .. Holborn Viaduct, E.C.

**Composition for Covering Boilers, &c.—
(See Non-Conducting Composition.)****Concrete Mixers.**

Jessop & Appleby Bros. Leicester & London
(Leicester & London), Ltd. Leicester & London
Mason Brothers .. Brandon St., Leicester
Wilson John H., & Co., Ltd. Sandhills, Liverpool

**Condensers (Fresh Water).—See Distilling
(Water) Apparatus.****Condensers (for Steam Engines).**

Allen W. H., Son, & Co. .. Queen's Engineering Wks.
Bedford [Birmingham]

Belliss G. E., & Co., Ltd. .. Ledsam St. Works, Bir-
Bobby William .. 16, Union Court, Old
Broad St., E.C.

Caird & Rayner .. 777, Commercial Rd., E.
Campbell & Calderwood .. Soho Engine Wks., Paisley

Craig A. F., & Co., Ltd. .. Paisley
Fraser & Chalmers, Ltd. .. 43, Threadneedle St., E.C.

Green Thomas, & Son, Ltd. Smithfield Ironworks,
Leeds; & Surrey Wks.,
Blackfriars Rd., S.E.

Jessop & Appleby Bros. Leicester & London
(Leicester & London), Ltd. Leicester & London

Klein Engineering Co., } 9, South Parade, Man-
Ltd. .. chester

Ledward T. & Co. .. 35, Queen Victoria St.,
Mirreles, Watson & Yaryan } (E.C.)
Co., Ltd. .. Scotland St., Glasgow

Piggott Thos., & Co., Ltd. Springhill, Birmingham
Pulsometer Engineering
Co., Ltd. .. Nine Elms, S.W.

Reader E., & Sons .. Phoenix Wks., Nottingham
Royle J. J. .. Gt. Bridgewater St., Man-
chester

Scott Ernest, & Mountain, } Close Works, Newcastle-
Ltd. .. on-Tyne

Wheeler Condenser and En- } 79, Queen Victoria St.,
gineering Co. .. E.C.

Worthington Pumping En- } 153, Queen Victoria St.,
gine Co. .. E.C.

Conveyors.

Adam J. M., & Scott (Pneumatic) .. Ibrox Ironwks., Glasgow

Brown Hoisting & Convey-
ing Machine Co. .. Cleveland, Ohio, U.S.A.

Conveyor & Elevator Co. .. Accrington, Lancashire
Johnson Wm., & Sons .. Castleton Foundry, Arm-
ley, Leeds

Pott, Cassels & Williamson Motherwell, nr. Glasgow
Temperley Transporter Co. 72, Bishopsgate St.
Within, E.C.

Cooking Apparatus.

Summerscales W., & Sons, } Phoenix Foundry, Keigh-
Ltd. } ley

Copper Ingots, Bars and Sheets.

Broughton Copper Co., Ltd. Manchester

Coppersmiths.

Abbot John, & Co., Ltd. . . Park Works, Gateshead-
Birmingham Battery & } (on-Tyne
Metal Co. } Birmingham
Blair, Campbell & McLean . . Scotland St. Copper Wks.,
Glasgow

Longdon A. & W. . . . Waterloo Ironwks., Poole
Storey I., & Sons Knott Mill, Manchester
Wailles George, & Co. . . 258, Euston Rd., N.W.

Copying Presses.

Daniell S. A., Ltd. . . . Edward St. Parade, Bir-
mingham

Corrugated Boiler Furnaces.

Leeds Forge Co., Ltd. . . Leeds

Cotton Presses.

Berry Henry, & Co., Ltd. . Croydon Works, Leeds
Coles H. J. London Crane Works,
Derby

Greenwood & Batley, Ltd. . Albion Works, Armley
Rd., Leeds

Hayward-Tyler & Co. . . 90 & 92, Whitecross St.,
Piggott Thos., & Co., Ltd. Birmingham [E.C.
Rice & Co. Neville Works, Elland
Rd., Leeds

Tangyes Limited . . . Cornwall Wks., Birm'ham

Counters.

M'Innes T. S., & Co., Ltd. . 42, Clyde Place, Glasgow

Couplings (Railway).

Gibbins R. C., & Co. . . Berkley St., Birmingham
Roger Robert, & Co. . . Stockton-on-Tees

Couplings (Shaft).

Bagshaw J., & Sons, Ltd. . . Batley, Yorkshire
Bridge D., & Co., . . . King St. Engine Works,
Salford, Manchester.

Cowlshaw, Walker & Co.,
Ltd. Etruria, Stoke-on-Trent
Mackies Ltd. Berks Ironwks., Reading

Smith & Grace Screw Boss
Pulley Co., Ltd. . . . Thrapston
Taylor & Challen, Ltd. . . Birmingham

Cranes, Travellers, Winches, &c.

Arrol Sir William, & Co., } Dalmarnock Ironworks,
Ltd. } Bridgeton, Glasgow

Ashbury Railway Carriage
& Iron Co., Ltd. . . . Openshaw, Manchester

Baker Blower Engineering
Co. Stanley Works, Sheffield
Bedford Engineering Co. . . Bedford

Berry Henry, & Co., Ltd. . Croydon Works, Leeds
Booth Joseph, & Bros., Ltd. Rodley, Leeds

British Schuckert Electric
Co., Ltd. Clun House, Surrey St.,
Strand, W.C.

Broadbent Thos., & Sons,
Ltd. Chapel Hill, Huddersfield

**Cranes, Travellers, Winches, &c.—Con-
tinued.**

Brown Hoisting & Convey-
ing Machine Co. . . . Cleveland, Ohio, U.S.A.
Butters Brothers & Co. . . 20, Waterloo St., Glasgow

Chaplin Alex., & Co. . . . Govan, Glasgow
Cochrane Jno. Barrhead, N.B.

Coles H. J. London Crane Works,
Derby

Cowans, Sheldon & Co., Ltd. Carlisle [gow
Dempster, Moore & Co. . . 49, Robertson St., Glas-

Detombay, Delange et Cie. Hoboken, near Antwerp
Drysdale & Co. Bon Accord Engine Wks.,
Glasgow

East Ferry Road Engineer-
ing Works Co., Ltd. . . Millwall, E.

Felding & Platt, Ltd. . . Gloucester
Gibbins R. C., & Co. . . Berkley St., Birmingham

Grafton & Co. Bedford
Grieve John, & Co. . . . Motherwell, Scotland

Hanna, Donald & Wilson . . Paisley, N.B.
Isca Foundry & Engineer-
ing Co. Newport, Mon

Isles Ltd. Stanningley, Leeds
Jessop & Appleby Bros.
(Leicester & London), Ltd.

Leeds Engineering & Hy-
draulic Co. Providence Works, Cross
Stamford St., Leeds

Marshall, Fleming & Jack
Morton Francis, & Co., Ltd. Motherwell, N.B.
Hamilton Ironworks,
Garston

Musgrave Bros. Crown Pt. Fndry, Leeds
Napier Brothers, Ltd. . . 100, Hyde Pk. St., Glasgow

Rice & Co. Neville Works, Elland
Rd., Leeds [on-Tees
Iron Foundry, Stockton-

Roger R., & Co. Old Foundry, Hull
Rose, Downs & Thompson,
Ltd. Motherwell, nr. Glasgow

Russell George, & Co. . . Queen's Rd., Battersea,
S.W.

Smith A., & Stevens . . . Eglinton Engine Works,
Glasgow

Smith A. & W., & Co., Ltd. Rodley, nr. Leeds
Stamm W. (Grusonwerk) . . 25, College Hill, E.C.

Stannah J. 20, Southwark Bridge
Stothert & Pitt, Ltd. . . Bath [Rd., S.E.

Tangyes Limited Cornwall Works, Bir-
Leicester [mingham

Taylor & Hubbard Blackwall, E.
Thames Ironworks & Ship-
building Co., Ltd. . . . Falmouth Rd., S.E.

Waygood R., & Co., Ltd. . . Cleveland, Ohio, U.S.A.
Wellman-Seaver Eng. Co. . . Horsforth, near Leeds

Whitaker Bros., Ltd. . . Sandhills, Liverpool
Wilson John H., & Co., Ltd. Philadelphia, U.S.A.

Wood R. D., & Co. . . . Blackburn, Lancashire
Yates & Thom

Crank Axles.
Hadfield's Steel Foundry
Co., Ltd. Hecla Works, Sheffield

Jessop W., & Sons, Ltd. . . Sheffield
Spencer John, & Sons, Ltd. Newburn Steel Works,
Newcastle-on-Tyne

Woodhouse & Rixson . . Sheffield

Crankshafts.
Beardmore William, & Co. Parkhead Ironworks,
Sheffield [Glasgow

Besemer Hy., & Co., Ltd. Sheffield
Brown John, & Co., Ltd. . . Sheffield

Crankshafts.—Continued.

Dennystown Forge Co. . .	Dumbarton
Hadfield's Steel Foundry Co. Ltd. . .	Hecla Works, Sheffield
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Sheffield [Manchester
Jessop W., & Sons, Ltd. . .	Hartlepool [Durham
Richardson T., & Sons, Ltd.	Wolsingham, R.S.O., Co.
Rogerson John, & Co., Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Spencer John, & Sons, Ltd.	Sheffield
Vickers, Sons & Maxim, Ltd.	

Creosoting Plant.

Abbot John, & Co., Ltd. . .	Park Works, Gateshead.
Cowans, Sheldon & Co., Ltd.	Carlisle [on-Tyne

Crucibles.

Doulton & Co., Ltd. . .	Lambeth, S.E.
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Crushing Machinery.—(See Disintegrators and Mills.)**Cupolas.**

Thwaites Bros., Ltd. . .	Vulcan Ironwks., Bradf'd
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Destructors.

Manlove, Alliott & Co., Ltd.	Nottingham
Meldrum Bros.	10, City Rd., Manchester

Disinfectants.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Aston Chemical Co. . .	Birmingham
House & Co., Ltd. . . .	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Litholine Co.	31, Whitworth St., Manchester
Palfreyman W. H., & Co.	17, Goree-Piazzas, Liverpool

Disinfectors.

Bradford Thomas, & Co. . .	High Holborn, W.C.; and Crescent Ironwks., Manchester
Tullis D. & J., Ltd. . .	Kilbowie Ironworks, nr. Glasgow

Disintegrators.

Askham Bros., & Wilson, Ltd.	Sheffield
Fraser & Chalmers, Ltd. . .	43, Threadneedle St., E.C.
Grusonwerk	Magdeburg-Buckau
Hardy Patent Pick Co., Ltd.	Sheffield
Mason Bros.	Brandon St., Leicester
Stamm W. (Grusonwerk) . .	25, College Hill, E.C.

Distillery Plant.

Coates Victor, & Co., Ltd.	Lagan Foundry, Belfast
Davey Arthur J.	122, Cannon St., E.C.
Hunter & English	Bow, London, E.
Pontifex & Wood, Ltd. . .	Union Foundry, Derby

Distilling (Water) Apparatus.

Caird & Rayner	777, Commercial Rd., E.
Chaplin Alex., & Co. . . .	Govan, Glasgow [E.
Fraser W. J., & Co.	98, Commercial Rd. East.
Kirkaldy John, Ltd. . . .	101, Leadenhall St., E.C.
Normandy's Patent Marine Aerated Fresh Water Co., Ltd.	Victoria Dock Rd., E.
Boyle J. J.	Gt. Bridgewater St., Manchester

Drawing Instruments.

Baker C.	244, High Holborn, W.C.
Clark Gordon P.	10, Lansdowne Rd., Notting Hill, W.
Eyre & Spottiswoode . . .	Great New St., E.C.
Negretti & Zambra	Holborn Viaduct, E.C.
Stanley W. F.	Great Turnstile, Holborn
Thornton A. G.	67, St. Mary St., Manchester

Drawings, Tracings, &c.

Halden J., & Co.	8, Albert Sq., Manchester
Kell T. & Son	40, King St., Covent Garden, W.C.
Messer & Thorpe	8, Quality Court, E.C.
Rice Thos. S.	60, Watling St., E.C.
Shepherd A.	32, Charing Cross, S.W.
Stanley W. F.	Railway Approach, London Bridge, S.E.

Dredging Contractors.

Flower & Everett	69, King William St., E.C.
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Dredging Machines.

Coles H. J.	London Crane Works, Derby
Detombay, Delange et Cie.	Hoboken, near Antwerp
Edwards & Co.	Millwall, E.
Fleming & Ferguson, Ltd.	Faisley, N.B.
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hanna, Donald & Wilson . .	Faisley, N.B.
Hunter & English	Bow, London, E.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Lobnitz & Co., Ltd. . . .	Renfrew, Scotland
Priestman Bros.	Holderness Foundry, Hull
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Simons W., & Co., Ltd. . .	Renfrew, N.B.
Smit L., & Zoon	Kinderdijk, Holland
Smulders A. F.	Rotterdam, Holland
Stothert & Pitt, Ltd. . . .	Bath

Drying Apparatus.

Fraser W. J., & Co. . . .	98, Commercial Rd. East, E.
Higginbottom & Co., Ltd.	Seel St., Liverpool

Dust Collectors.

Adam J. M., & Scott . . .	Ibrox Ironwks., Glasgow
Simon Henry, Ltd.	20, Mount St., M'cheses

Dynamos.—(See Electric Lighting Plant.)**Ebonite.**

India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	Silvertown, Essex
Moseley David, & Sons . . .	Ardwick, Manchester
Winter F.	8, Redcross St., E.C.

Economisers (Fuel).

Clay Cross Co.	Clay Cross, nr. Chestfield
Meldrum Bros.	10, City Rd., Manchester

Electric Bells and Signals.

Bailey W. H., & Co., Ltd. Albion Works, Salford, Manchester
 Blackburn, Starling & Co., 39, Arkwright St., Nottingham

Electric Cables.

India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, Essex
 Johnson & Phillips, Victoria Works, Old
 Telegraph Manufacturing Co., Ltd. [Charlton, Kent
 Helsby, near Warrington

Electric Lighting Plant.

Allen W. H., Son, & Co. Queen's Engineering Works, Bedford
 Becker R., & Co. 50A, Rivington St., Curtain Rd., E.C.
 Belliss G. E., & Co., Ltd. Ledsam St. Works, Birmingham
 British Schuckert Electric Co., Ltd. Clun House, Surrey St., Strand, W.C.
 British Thomson-Houston Co., Ltd. 83, Cannon St., E.C.
 Clarke, Chapman & Co., Ltd. Gateshead-upon-Tyne
 Crompton & Co., Ltd. Mansion House Bldings, Manchester [E.C.
 Dorman & Smith 36 & 37, Queen St., Cheapside, E.C.
 Edison & Swan United Electric Light Company, Ltd. 4, Great Winchester St., E.C.
 Electrical Power Storage Co., Ltd. Leeds
 Fowler J., & Co. (Leeds), Leeds
 Greenwood & Batley, Ltd. Oldham
 Hall J. P., & Co. Kirkstall Rd., Leeds
 Hartnell Wilson Newcastle-on-Tyne
 Holmes J. H., & Co. Silvertown, Essex
 India Rubber, Gutta Percha and Telegraph Works Co., Ltd. Salford Rolling Mills, Manchester
 Jackson P. R., & Co., Ltd. 14, Union Ct., Old Broad
 Johnson & Phillips Norwich [St., E.C.
 Laurence, Scott & Co., Ltd. Heaton Works, Newcastle
 Parsons C. A., & Co. Thistle Works, Paisley
 Paterson, Cooper & Co. Tay Works, Edinburgh
 Peebles D. Bruce & Co. Close Works, Newcastle-on-Tyne
 Scott Ernest, & Mountain, Ltd. 12, Queen Anne's Gate, S.W.
 Siemens Brothers & Co., Ltd. 32, Victoria St., Westminster, S.W.
 Westinghouse Electric Co., Ltd.

Electric Motors.

Allen W. H., Son & Co. Queen's Engineering Works, Bedford
 Becker R., & Co. 50A, Rivington St., Curtain Rd., E.C.
 British Schuckert Electric Co., Ltd. Clun House, Surrey St., Strand, W.C.
 British Thomson-Houston Co., Ltd. 83, Cannon St., E.C.
 Greenwood & Batley, Ltd. Leeds
 Hartnell Wilson Kirkstall Rd., Leeds
 Holmes J. H., & Co. Newcastle-on-Tyne
 India Rubber, Gutta Percha, & Telegraph Works Co., Ltd. Silvertown, Essex

Electric Motors.—Continued.

Jackson P. R., & Co., Ltd. Salford Rolling Mills, Manchester
 Johnson & Phillips, 14, Union Court, Old Broad St., E.C.
 Laurence, Scott & Co., Ltd. Norwich [castle
 Parsons C. A., & Co. Heaton Works, New-
 Paterson, Cooper & Co. Thistle Works, Paisley
 Peebles D. Bruce & Co. Tay Works, Edinburgh
 Scott Ernest, & Mountain, Close Works, Newcastle-on-Tyne
 Siemens Brothers & Co., Ltd. 12, Queen Anne's Gate, S.W.
 Westinghouse Electric Co., 32, Victoria St., Westminster, S.W.

Electrical Engineers.

Allen W. H., Son, & Co. Queen's Engineering Works, Bedford
 Belliss G. E., & Co., Ltd. Ledsam St. Works, Birmingham
 British Schuckert Electric Co., Ltd. Clun House, Surrey St., Strand, W.C.
 British Thomson-Houston Co., Ltd. 83, Cannon St., E.C.
 Clarke, Chapman & Co., Ltd. Gateshead-upon-Tyne
 Crompton & Co., Ltd. Mansion House Bldings, Manchester [E.C.
 Dorman & Smith 36 & 37, Queen St., Cheapside, E.C.
 Greenwood & Batley, Ltd. Leeds
 Hall J. P., & Co. Oldham
 Hartnell Wilson Kirkstall Rd., Leeds
 India Rubber, Gutta Percha and Telegraph Works Co., Ltd. Silvertown, Essex
 Jackson P. R., & Co., Ltd. Salford Rolling Mills, Manchester [St., E.C.
 Johnson & Phillips 14, Union Ct., Old Broad
 Johnson & Phillips' Electric Cable Works Old Charlton, Kent
 Nalder Bros. & Thompson 34, Queen St., E.C.
 Parsons C. A., & Co. Heaton Works, Newcastle
 Paterson, Cooper & Co. Thistle Works, Paisley
 Peebles D. Bruce & Co. Tay Works, Edinburgh
 Scott Ernest, & Mountain, Close Works, Newcastle-on-Tyne
 Siemens Brothers & Co., Ltd. 12, Queen Anne's Gate, S.W.
 Telegraph Manufacturing Co., Ltd. Helsby, near Warrington
 Westinghouse Electric Co., Ltd. 32, Victoria St., Westminster, S.W.

Elevators, Grain, Coal, &c.
 Coles H. J. London Crane Works, Derby
 Conveyor & Elevator Co. Accrington, Lancashire
 East Ferry Road Engineering Works Co., Ltd. Millwall, E. [Rd., Leeds
 Greenwood & Batley, Ltd. Albion Works, Armley
 Johnson Wm., & Sons Castleton Foundry, Armley, Leeds
 Poole R., & Son Co. Baltimore, Md., U.S.A.
 Pott, Cassels & Williamson Motherwell, nr. Glasgow
 Rose, Downs & Thompson, Ltd. Old Foundry, Hull
 Smulders A. F. Rotterdam, Holland
 Whitmore & Binyon Wickham Market; & 64, Mark Lane, E.C.

Emery and Emery Cloth, &c.

Davies W. J., & Sons .. 109, Weston St., S.E.
 Goldsworthy T., & Sons .. Hulme, Manchester
 London Emery Works Co. 10 & 12, Vine St., Clerken-
 well, E.C. (don, S.E.)
 Oakey John, & Sons, Ltd. Wellington Mills, Lon-

Emery Grinding Machinery.

Greenwood & Batley, Ltd. Albion Works, Armley
 Rd., Leeds
 London Emery Works Co. 10 & 12, Vine St., Clerken-
 well, E.C. [chester
 Luke & Spencer, Ltd. .. Broadheath, near Man-
 Sterne L. & Co., Ltd. .. Crown Iron Wks., Glasgow
 Tattersall A. A. .. Mill Hill Tool Works,
 Blackburn

Emery Wheels.

Greenwood & Batley, Ltd. Leeds
 London Emery Works Co. .. 10 & 12, Vine St., Clerken-
 well, E.C. [chester
 Luke & Spencer, Ltd. .. Broadheath, near Man-
 Mitchell's Emery Wheel Co. Mill St., Bradford, Man-
 chester
 Pfeil & Co. .. 145/9, St. John St.,
 Clerkenwell, E.C.
 Selig, Sonnenthal & Co. .. 85, Queen Victoria St.,
 E.C.
 Sterne L. & Co., Ltd. .. Crown Iron Wks., Glasgow

Engine and Boiler Fittings.

Asbestos Co., Ltd. (Bell's) 593, Southwark St., S.E.
 Bailey W. H., & Co., Ltd. Albion Works, Salford,
 Manchester
 Dempster, Moore & Co. .. 49, Robertson St., Glas-
 gow
 Empire Engineering Co. .. Fallsword, Manchester
 Galloways Limited .. Manchester
 Green & Bonding .. 105, Bunhill Row, E.C.
 Lunkenheimer Co. .. Cincinnati, Ohio, U.S.A.
 M'Neil C. .. Kinning Park Ironworks,
 Glasgow
 Piggott Thos., & Co., Ltd. Springhill, Birmingham
 Rhodes B., & Son .. Bow Brass Works, Lon-
 don, E.
 Royle J. J. .. Gt. Bridgewater St., Man-
 chester
 Schäffer & Budenberg 1, Southgate, Manchester
 Scott Ernest, & Mountain, Close Works, Newcastle-
 on-Tyne
 Storey I., & Sons .. Knott Mill, Manchester
 Tangyes Limited .. Cornwall Wks., Birming-
 ham
 Wallach Bros. .. 57, Gracechurch St., E.C.
 Weir G. & J., Ltd. .. Cathcart, Glasgow

Engineers (Consulting and Inspecting).

Crosier, Stephens & Co. .. 2, Collingwood St., New-
 castle-on-Tyne
 Price John .. Workington
 Rice Thomas S. .. 60, Watling St., E.C.
 Wilks, Sloan & Co. .. 112, Bath St., Glasgow

Engines (Air).

Bailey W. H., & Co., Ltd. Albion Works, Salford,
 Manchester
 Belliss G. E., & Co., Ltd. .. Ledsam St. Works, Bir-
 mingham [E.C.
 Hayward-Tyler & Co. .. 90 & 92, Whitecross St.,

Engines (Blowing).

Allis Edward P., Co. .. Milwaukee, Wis., U.S.A.
 Baker Blower Engineering Co. .. Stanley Works, Sheffield
 Belliss G. E., & Co., Ltd. .. Ledsam St. Works, Bir-
 mingham
 Galloways Limited .. Manchester
 Gwynne & Co. .. Brooke St. Works,
 Holborn, E.C.
 Scott Geo., & Son .. 44, Christian St., E.
 Société Anonyme des Ateliers de Construction de La Meuse .. Liege, Belgium
 Thwaites Brothers, Ltd. .. Vulcan Iron Wks., Bradford
 Walker Brothers .. Pagefield Iron Wks., Wigan

Engines (Gas).

Clayton & Shuttleworth .. Lincoln
 Crossley Bros., Ltd. .. Manchester
 Cundall R., & Sons, Ltd. .. Shipley, Yorks
 Dick, Kerr & Co., Ltd. .. 110, Cannon St., E.C.
 Fielding & Platt, Ltd. .. Gloucester
 Gardner & Sons .. Patricroft, Manchester
 Humpidge, Holborow & Co., Ltd. .. Stroud [minster
 Körting Brothers .. 53, Victoria St., West-
 Manlove, Alliot & Co., Ltd. Nottingham
 National Gas Engine Co., Ltd. .. Ashton-under-Lyne, [E.C.
 Oakes J. C. R. .. 63, Queen Victoria St.,
 Robey & Co., Ltd. .. Lincoln
 Stamm W. .. 25, College Hill, E.C.
 Tangyes Limited .. Cornwall Works, Bir-
 mingham

Engines (Locomotive).

Avonside Engine Co. .. Bristol [Stafford
 Bagnall W. G., Ltd. .. Castle Engine Works,
 Dunkirk, N.Y., U.S.A.
 Brooks Locomotive Works Philadelphia, U.S.A.
 Burnham, Williams & Co. 110, Cannon St., E.C.
 Dick, Kerr & Co., Ltd. .. Leeds
 Fowler J., & Co. (Leeds), Ltd. .. Smithfield Ironworks,
 Green Thomas, & Son, Ltd. Leeds; & Surrey Wks.,
 Blackfriars Rd., S.E.
 Hawthorn R. & W., Leslie & Co., Ltd. .. Newcastle-on-Tyne
 Hudswell, Clarke & Co. .. Leeds
 Hunslet Engine Co. .. Leeds
 Jessop & Appley Bros. (Leicester & London), Ltd. Leicester & London
 Kerr, Stuart & Co., Ltd. .. 20, Bucklersbury, E.C.
 Manning, Wardle & Co. .. Boyne Engine Works,
 Leeds [Bristol
 Peckett & Sons .. Atlas Engine Works,
 Penney Alexander, & Co. 107, Fenchurch St., E.C.
 Pittsburgh Locomotive Works Pittsburgh, Pa., U.S.A.
 Richmond Locomotive and Machine Works .. Richmond, Va., U.S.A.
 Robey & Co., Ltd. .. Lincoln
 Rogers Locomotive Co. .. Paterson, N.J., U.S.A.
 Ruston, Proctor & Co., Ltd. Sheaf Ironworks, Lincoln
 Schenectady Locomotive Works .. Schenectady, New York, U.S.A.
 Société Anonyme des Ateliers de Construction de La Meuse .. Liege, Belgium [Wigan
 Walker Brothers .. Pagefield Ironworks,

Engines (Marine).

Alley & Maclellan ..	Sentinel Works, Glasgow
Belliss G. E., & Co., Ltd. ..	Ledsam St. Works, Birmingham
Bow, McLachlan & Co. ..	Thistle Works, Paisley
Burrell C. & Sons, Ltd. ..	Thetford [Paisley]
Campbell & Calderwood ..	Soho Engine Works,
Chaplin Alex., & Co. ..	Govan, Glasgow
Cochran & Co. ..	Birkenhead
Day, Summers & Co. ..	Northam Ironworks, Southampton
Edwards & Co. ..	Millwall, E.
Fleming & Ferguson, Ltd.	Paisley, N.B.
Green & Boulding ..	105, Bunhill Row, E.C.
Hanna, Donald & Wilson ..	Paisley, N.B.
Hawthorn R. & W., Leslie & Co., Ltd. ..	Newcastle-on-Tyne
Hayes Edward ..	Stony Stratford, Wotton
Hunter & English ..	Bow, E.
Kincaid John G., & Co. ..	Greenock, Scotland
Lobnitz & Co., Ltd. ..	Renfrew, Scotland
Longson A. & W. ..	Waterloo Ironwks., Poole
Lytham Shipbuilding & Engineering Co. ..	Lytham, Lancashire
Maudslay, Sons & Field, Ltd. ..	Lambeth, S.E.
Mumford A. G. ..	Culver St. Ironworks, Colchester
Owen, Brazil & Holborow	Vulcan Ironwks., Bristol
Plenty & Son, Ltd. ..	Eagle Ironworks, Newbury, Berks
Richardson Thos., & Sons, Ltd. ..	Hartlepool
Roger R., & Co. ..	Stockton-on-Tees
Rose, Downs & Thompson, Ltd. ..	Hull
Ross & Duncan ..	Whitefield Wks., Glasgow
Schichau F. ..	Elbing-Danzig, Prussia
Scott Ernest, & Mountain, Ltd. ..	Close Works, Newcastle-on-Tyne
Simons W., & Co., Ltd. ..	Renfrew, N.B.
Simpson, Strickland & Co., Ltd. ..	Dartmouth, S. Devon
Smit P., Jr. ..	Rotterdam, Holland
Thornycroft J. I., & Co. ..	Chiswick, W.
Vauxhall Ironworks Co., Ltd. ..	Wandsworth Rd., S.W.
Vosper & Co., Ltd. ..	Portsmouth
White J. Samuel, & Co., Ltd. ..	Medina Dock, Cowes
Yarrow & Co., Ltd. ..	Isle of Dogs, London, E.

Engines (Oil).

Britannia Company ..	Colchester
Clayton & Shuttleworth ..	Lincoln
Crosley Bros., Ltd. ..	Manchester
Cundall R., & Sons, Ltd. ..	Shipley, Yorks
Fielding & Platt, Ltd. ..	Gloucester
Gardner & Sons ..	Patricroft, Manchester
Green & Boulding ..	105, Bunhill Row, E.C.
Hornsby R., & Sons, Ltd. ..	Grantham
Neville Julius G., & Co. ..	Water St., Liverpool
Pollock, Whyte & Waddell	Globe Engineering Wks., Johnstone
Priestman Bros. ..	Holderness Foundry, Hull
Tangyes Limited ..	Cornwall Works, Birmingham [S.W.]
Tolch & Co. ..	The Boatyard, Fulham, Portsmouth
Vosper & Co., Ltd. ..	

Engines (Portable).

Barrows & Co. ..	Banbury
Clayton & Shuttleworth ..	Lincoln [field]
Clench & Co., Ltd. ..	Lincoln Works, Chester-
Davey, Paxman & Co., Ltd.	Colchester
Foster W., & Co., Ltd. ..	Lincoln
Garrett R., & Sons, Ltd. ..	Leiston Works, Suffolk
Hindley E. S. ..	Bourton, Dorset
Hornsby R., & Sons, Ltd.	Grantham
Horsfield Ralph, & Co. ..	Chapel-en-le-Frith, Derbyshire
Marshall, Sons & Co., Ltd.	Gainsborough
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd. ..	Ipswich
Robey & Co., Ltd. ..	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Smedley Brothers, Ltd. ..	Belper
Turner E. R. & F., Ltd. ..	(132) Ipswich

Engines (Pumping).

Abbot John, & Co., Ltd. ..	Park Works, Gateshead-on-Tyne
Allis Edward P., Co. ..	Milwaukee, Wis., U.S.A.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester [ningham]
Belliss G. E., & Co., Ltd. ..	Ledsam St. Works, Bir-
Berry Henry, & Co., Ltd. ..	Croydon Works, Leeds
Coalbrookdale Co., Ltd. ..	Coalbrookdale, R.S.O., Shropshire
Fielding & Platt, Ltd. ..	Gloucester
Fraser & Chalmers, Ltd. ..	43, Threadneedle St., E.C.
Gwynne & Co. ..	Brooke St. Works, Holborn, E.C.
Horsfield Ralph, & Co. ..	Chapel-en-le-Frith, Derbyshire
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Leeds Engineering & Hydraulic Co. ..	Providence Works, Cross Stamford St., Leeds
Musgrave Bros. ..	Crown Point Foundry, Leeds
Pulsometer Engineering Co., Ltd. ..	Nine Elms, S.W.
Rice & Co. ..	Neville Works, Elland
Robey & Co., Ltd. ..	Lincoln [Rd., Leeds]
Smith Hugh, & Co. ..	Glasgow [ham]
Tangyes Limited ..	Cornwall Wks., Birming-
Warner R., & Co. ..	97, Queen Victoria St., E.C.

Engines (Stationary).

Abbot John, & Co., Ltd. ..	Park Works, Gateshead-on-Tyne
Allen W. H., Son, & Co. ..	Queen's Engineering Works, Bedford
Alley & Maclellan ..	Sentinel Works, Glasgow
Allis Edward P., Co. ..	Milwaukee, Wis., U.S.A.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Baker Blower Engineering Co. ..	Stanley Works, Sheffield
Belliss G. E., & Co., Ltd. ..	Ledsam St. Works, Birmingham
Brotherhood P. ..	Belvedere Rd., Westminster Bridge Rd., S.E.
Campbell & Calderwood ..	Soho Engine Wks., Paisley
Chaplin Alex., & Co. ..	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-upon-Tyne
Clayton & Shuttleworth ..	Lincoln
Clench & Co., Ltd. ..	Lincoln Works, Chester-field

Engines (Stationary).—Continued.

Coates Victor, & Co., Ltd. Lagan Foundry, Belfast
 Cochran J. Barrhead [Derby
 Coles H. J. London Crane Works,
 Coltman H., & Sons . . . Midland Ironworks,
 Loughborough
 Coulthard T., & Co. . . . Preston
 Craig A. F., & Co., Ltd. . . Paisley, N.B.
 Crow, Harvey & Co. . . . Park Grove Ironworks,
 Colchester [Glasgow
 Davey, Paxman & Co., Ltd. 49, Robertson St., Glasg'w
 Dempster, Moore & Co. . . Highgate Works, King's
 Dodman Alfred, Ltd. . . . Lynn
 Douglas & Grant Dunnikier Foundry,
 Kirkcaldy, N.B.
 Drysdale & Co. Bon Accord Engine
 Works, Glasgow
 Lincoln
 Foster W., & Co., Ltd. . . . Leeds
 Fowler J., & Co. (Leeds) 43, Threadneedle St., E.C.
 Ltd. Manchester
 Fraser & Chalmers, Ltd. . . Leiston Works, Suffolk
 Galloways Limited 105, Bunhill Row, E.C.
 Garrett R., & Sons, Ltd. . . Albion Works, Leeds
 Green & Boulding Brooke St. Works,
 Greenwood & Batley, Ltd. Leeds [Holborn, E.C.
 Gwynne & Co. 90 & 92, Whitecross St.,
 Hathorn, Davey & Co. . . . Manchester [E.C.
 Hayward-Tyler & Co. . . . Grantham
 Heenan & Froude Chapel-en-le-Frith,
 Hornsby R., & Sons, Ltd. Derbyshire
 Horsfield Ralph, & Co. . . Kalk, near Cologne, Ger-
 Humboldt Engineering } many
 Works Co. Bow, E.
 Hunter & English Bow, E.
 Isca Foundry & Engineer-
 ing Co. Newport, Mon.
 Jessop & Appleby Bros. (Leicester & London), Ltd. Leicester & London
 Lees T. & R. Hollinwood, near Man-
 chester
 Longsdon A. & W. Waterloo Ironwks., Poole
 Manlove, Alliot & Co. . . . Nottingham
 Marshall, Sons & Co., Ltd. Gainsborough
 McOnie, Harvey & Co., Ltd. Scotland St. Engine
 Works, Glasgow
 Moreland Richard, & Son, 3, Old St., E.C.
 Ltd.
 Musgrave John, & Sons, Globe Ironworks, Bolton
 Ltd. 100, Hyde Park St.,
 Napier Brothers, Ltd. . . . Glasgow
 Owen, Brazil & Holborow Vulcan Ironwks., Bristol
 Parsons C. A., & Co. . . . Heaton Wks., Newcastle-
 on-Tyne [Bristol
 Peckett & Sons Atlas Engine Works,
 Piggott, Thos., & Co., Ltd. Springhill, Birmingham
 Ransome A., & Co. . . . Stanley Works, Chelsea
 Ransomes, Sims & Jefferies, Ipswich
 Ltd. Phoenix Wks., Nott'ham
 Reader E., & Sons Lea Cut Ironworks, Lime-
 Redpath & Paris Lincoln [house, E.
 Robey & Co., Ltd. . . . Stockton-on-Tees
 Roger R., & Co.
 Rose, Downs & Thompson, Old Foundry, Hull
 Ltd. Motherwell, nr. Glasgow
 Russell Geo., & Co. Sheaf Ironworks, Lincoln
 Ruston, Proctor & Co., Ltd. Halifax
 Scott Bros.
 Scott Ernest, & Mountain, Close Works, Newcastle-
 Ltd. on-Tyne

Engines (Stationary).—Continued.

Shanks Thomas, & Co. . . Union Ironworks, John-
 Simpson, Strickland & Co., [stone
 Ltd. Dartmouth, S. Devon
 Smedley Brothers, Ltd. . . Eagle Ironworks, Belper
 Smith A. & W., & Co., Ltd. Eglington Engine Works,
 Société Anonyme des [Glasgow
 Ateliers de Construction
 de La Meuse Liege, Belgium
 Tangyes Limited Cornwall Works, Birm'ham
 Taylor & Challen, Ltd. . . Birmingham [ham
 Tullis D. & J., Ltd. . . . Kilbowie Ironworks, near
 Glasgow
 Turner E. R. & F., Ltd. . . (132) Ipswich
 Vauxhall Ironworks Co., Wandsworth Rd., S.W.
 Ltd. Pagefield Ironwks., Wigan
 Walker Brothers Wickham Market; and
 Whitmore & Binyon . . . 64, Mark Lane, E.C.
 Willans & Robinson, Ltd. Rugby, Warwickshire
 Yates & Thom Blackburn, Lancashire

Engines (Traction).
 Burrell C., & Sons, Ltd. . . Thetford
 Clayton & Shuttleworth . . Lincoln
 Foster Wm., & Co., Ltd. . . Lincoln
 Fowler J., & Co. (Leeds), Leeds
 Ltd. Grantham
 Hornsby R., & Sons, Ltd. Marshall, Sons & Co., Ltd.
 Marshall, Sons & Co., Ltd. Ransomes, Sims & Jefferies,
 Ransomes, Sims & Jefferies, Ltd.
 Robey & Co., Ltd. . . . Ipswich
 Ruston, Proctor & Co., Ltd. Lincoln
 Sheaf Ironworks, Lincoln.

Engines (Winding).

Abbot John, & Co., Ltd. . . Park Works, Gateshead-
 on-Tyne
 Campbell & Calderwood . . Soho Engine Wks., Paisley
 Chaplin Alex., & Co. . . . Govan, Glasgow
 Coalbrookdale Co., Ltd. . . Coalbrookdale, R.S.O.,
 Shropshire
 Evans & Widowfield . . . 5, Butte Crescent, Cardiff
 Fraser & Chalmers, Ltd. . . 43, Threadneedle St., E.C.
 Grange Iron Co., Ltd. . . . Durham
 Horsfield Ralph, & Co. . . Chapel-en-le-Frith,
 Derbyshire
 Jessop & Appleby Bros. (Leicester & London), Ltd. Leicester & London
 Leeds Engineering & Hy- } Providence Works, Cross
 draulic Co. Stamford St., Leeds
 Robey & Co., Ltd. . . . Lincoln
 Société Anonyme des }
 Ateliers de Construction }
 de La Meuse Liege, Belgium
 Tangyes Limited Cornwall Wks., Birm'ham
 Turner E. R. & F., Ltd. . . (132) Ipswich

Engravers, Mechanical, &c.

Barns W., & Son Perforating Works, Chal-
 ton Street, N.W.

Evaporators.

Burnet L., & Co. Govan, Glasgow
 Caird & Rayner 777, Commercial Rd., E.
 Campbell & Calderwood . . Soho Engine Wks., Paisley
 Houston J. & R. Greenock, N.B.
 McOnie, Harvey & Co., Ltd. Scotland St. Engine
 Works, Glasgow

Evaporators.—Continued.

Mirrlees, Watson & Yaryan Co., Ltd.	Scotland St., Glasgow
Richardson Thos., & Sons, Ltd.	Hartlepool
Royle J. J.	Gt. Bridgewater St., Manchester
Weir G. & J., Ltd.	Cathcart, Glasgow

Excavators.

Chaplin Alex., & Co.	Govan, Glasgow
Coles H. J.	London Crane Works, Derby
Fleming & Ferguson, Ltd.	Paisley, N.B.
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Schramm Richard, & Co.	Cannon St. House, E.C.
Smulders A. F.	Rotterdam, Holland
Thames Ironworks & Shipbuilding Co., Ltd.	Blackwall, E.
Whitaker Bros., Ltd.	Horsforth, near Leeds
Wilson John H., & Co., Ltd.	Saundhills, Liverpool

Exhausters.

Donkin B., & Co., Ltd.	Southwark Park Rd., S.E.
Körting Brothers	53, Victoria St., Westminster
Willes George, & Co.	258, Euston Rd., N.W.

Expanded Metal.

Expanded Metal Co., Ltd.	39, Up. Thames St., E.C.
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Explosives.

Evans & Widowfield	5, Bute Crescent, Cardiff
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Fans and Blowers.

Allen W. H., Son & Co.	Queen's Engineering Works, Bedford
American Blower Co.	70, Gracechurch St., E.C.
Baker Blower Engineering Co.	Stanley Works, Sheffield
Belliss G. E., & Co., Ltd.	Ledsam St. Works, Birmingham
Blackman Ventilating Co., Ltd.	63, Fore St., E.C.
Brotherhood P.	Belvedere Rd., Westminster Bidge. Rd., S.E.
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., E.C.
Donald James T., & Co., Ltd.	345, Argyle St., Glasgow
Donkin B., & Co., Ltd.	Southwark Park Rd., S.E.
Drysdale & Co.	Bon Accord Engine Wks., Glasgow
Evans & Widowfield	5, Bute Crescent, Cardiff
Granger A. W.	Brooke Rd., Stoke Newington, N.
Günther W., & Sons	Central Works, Oldham
Gwynne & Co.	Brooke St. Works, Holborn, E.C.
Heenan & Froude	Aston, Birmingham
Higginbottom & Co., Ltd.	Seel St., Liverpool
Hodges & Co.	Cazenove Works, Dunstable
Humboldt Engineering Works Co.	Kalk, near Cologne, Germany
Körting Bros.	53, Victoria St., Westminster, S.W.

Fans and Blowers.—Continued.

Lloyd & Davis	64, Summer St., S.E.
Maudslay, Sons & Field, Ltd.	Lambeth, S.E.
Meldrum Bros.	10, City Rd., Manchester
Parsons C. A., & Co.	Heaton Wks., Newcastle-on-Tyne
Samuelson & Co., Ltd.	Banbury, Oxon
Schiele Union Engineering Co., Ltd.	Pollard St., Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Sturtevant Engineering Co.	75, Queen Victoria St., E.C.
Thwaites Brothers, Ltd.	Vulcan Ironwks., Bradford
Walker Brothers	Pagefield Ironwks., Wigan
Watson Henry, & Sons	High Bridge Works, Newcastle-on-Tyne

Feed Check Valves (Combination).

Green & Boulding	105, Bunhill Row, E.C.
Weir G. & J., Ltd.	Cathcart, Glasgow

Feed-Water Heaters.

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Baker Blower Engineering Co.	Stanley Works, Sheffield
Brown C. J.	109, Victoria St., Westminster
Burnet L., & Co.	Govan, Glasgow
Caird & Rayner	777, Commercial Rd., E.
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Green & Boulding	105, Bunhill Row, E.C.
Kirkaldy John, Ltd.	101, Leadenhall St., E.C.
Meldrum Bros.	10, City Rd., Manchester
Normandy's Patent Marine Aërated Fresh Water Co., Ltd.	Victoria Dock Rd., E.
Richardson Thos., & Sons, Ltd.	Hartlepool
Royle J. J.	Great Bridgewater St., Manchester
Shore T., & Sons	Albion Foundry, Hanley, Staffs.
Tangyes Limited	Cornwall Wks., Birmingham
Weir G. & J., Ltd.	Cathcart, Glasgow
Wheeler Condensers and Engineering Co.	179, Queen Victoria St., E.C.
Wright Jos., & Co.	Tipton, Staffordshire

Feed-Water Regulators.

Maudslay, Sons & Field, Ltd.	Lambeth, S.E.
Thornycroft J. I., & Co.	Chiswick, W.
Yarrow & Co., Ltd.	Poplar, E.

Fencing.

Expanded Metal Co., Ltd.	39, Up. Thames St., E.C.
Morton Francis, & Co., Ltd.	Hamilton Iron Works, Garston

Fibre (Vulcanised).

Moseley David, & Sons	Ardwick, Manchester
Mosses & Mitchell	68, 69, 70 & 71, Chiswell St., E.C.

Files.

Allen Edgar, & Co., Ltd.	Imperial Steel Works, Sheffield
Cammell Charles, & Co., Ltd.	Cyclops Steel & Iron Wks., Sheffield

Files.—(Continued).

Firth Thos., & Sons, Ltd. . .	Norfolk Works, Sheffield
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne

Filtering Apparatus.

Bristowe L. Hugh, & Co., Ltd.	Albany Buildings, 47, Victoria St., S.W.
Caird & Rayner	777, Commercial Rd., E.
Crow, Harvey & Co. . .	Park Grove Ironworks, Glasgow [Rd., Leeds
Greenwood & Batley, Ltd.	Albion Works, Armley
Houston J. & R.	Greenock, N.B.
Maudslay, Sons & Field, Ltd.	Lambeth, S.E.
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Wells A. C., & Co. . . .	102, Midland Rd., N.W.

Fire Bars.

Meldrum Bros.	10, City Rd., Manchester
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Fire-Clay Goods.

House & Co., Ltd. . . .	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Sankey J. H., & Son . . .	Canning Town, E.
Southwood Jones & Co., Ltd.	Risca, Mon.

Fire-Extinguishing Apparatus.

Merryweather & Sons, Ltd.	63, Long Acre, W.C.
Worthington Pumping Engine Co.	153, Queen Victoria St., E.C.

Fireproof Construction.

Expanded Metal Co., Ltd.	39, Up. Thames St., E.C.
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Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)**Fog Signals.**

Henry Rifled Barrel Engineering and Small Arms Co., Ltd.	Eagle Wharf Rd., N.
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Forced Draught Apparatus.

Belliss G. E., & Co., Ltd. . .	Ledsam St. Works, Birmingham
Campbell & Calderwood . .	Soho Engine Wks., Paisley
Granger W. A.	Brooke Rd., Stoke Newington, N.
Improved Patent Forced Draught Furnace Syndicate, Ltd.	73, Queen Victoria St., E.C.
Meldrum Bros.	10, City Rd., Manchester

Forges (Portable).

Becker R., & Co.	50A, Rivington St., Curtain Rd., E.C.
Sturtevant Blower Co. . .	75, Queen Victoria St., E.C.
Thwaites Brothers, Ltd. . .	Vulcan Ironwks., Bradford

Forging Machines.

Fielding & Platt, Ltd. . .	Gloucester [Rd., Leeds
Greenwood & Batley, Ltd.	Albion Works, Armley
Ryder William	Beehive Works, Bolton

Forging Plant.

Berry Henry, & Co., Ltd. . .	Croydon Works, Leeds
Fielding & Platt, Ltd. . .	Gloucester
Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
Rice & Co.	Neville Works, Elland Rd., Leeds
Smith Hugh, & Co.	Glasgow

Forgings (Iron and Steel).

Abbot John, & Co., Ltd. . .	Park Works, Gateshead-on-Tyne
Baker Blower Engineering Co.	Stanley Works, Sheffield
Beardmore Wm., & Co. . .	Parkhead Ironworks, Sheffield [Glasgow
Bessemer Hy., & Co., Ltd.	
Brown, Bailey's Steel Works, Ltd.	Sheffield
Brown John, & Co., Ltd. . .	Sheffield
Cammell Chas., & Co., Ltd.	Cyclops Steel & Iron Works, Sheffield
Darlington Forge Co., Ltd.	Darlington
Dennystown Forge Co. . .	Dumbarton
Fairley James, & Sons . .	Shadwell St., Birmingham
Firth Thos., & Sons, Ltd. . .	Norfolk Works, Sheffield
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hill & Smith	Brierley Hill Ironworks, near Dudley
Hurst, Nelson & Co., Ltd.	Glasgow Rolling Stock and Plant Works, Motherwell

Isca Foundry & Engineering Co.	Newport, Mon.
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Sheffield [Manchester
Jessop Wm., & Sons, Ltd.	
Kirkstall Forge Co. . . .	Near Leeds
Leeds Forge Co., Ltd. . .	Leeds
Midland Railway Carriage & Wagon Co., Ltd. . .	Abbey Wks., Shrewsbury
Mount Vernon Iron & Steel Co., Ltd.	Shettleston, Glasgow
Osborn S., & Co.	Sheffield [Durham
Rogerson John, & Co., Ltd.	Wolsingham, R.S.O., Co.
Smith Thos., & Sons, of Saltley, Ltd.	Saltley Mill, Birmingham
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Steel Co. of Scotland, Ltd.	23, Royal Exchange Square, Glasgow
Vickers, Sons, & Maxim, Ltd.	Sheffield
Woodhouse & Rixson . . .	Sheffield

Furnaces for Destroying Refuse.—(See Disinfectors and Destructors.)**Furnaces and Furnace Fittings.**

Bickford Burners Co. . . .	Camborne, Cornwall
Brown John, & Co., Ltd. . .	Sheffield
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., E.C.
Clench & Co., Ltd.	Lincoln Works, Chesterfield
Deighton's Patent Flue & Tube Co., Ltd.	Vulcan Works, Pepper Rd., Leeds

Furnaces and Furnace Fittings.—*Continued.*

Farnley Iron Co., Ltd.	Leeds
Galloways Limited	Manchester (ington, N.
Granger W. A.	Brooke Rd., Stoke New-
House & Co., Ltd.	Marlboro' Wks., 36, Vaux hall Rd., Liverpool
Improved Patent Forced Draught Furnace Syndi- cate, Ltd.	73, Queen Victoria St., E.C.
Lee, Howl & Co., Ltd.	Tipton (Rd., S.E.
Martin W. A., & Co.	Pocock St., Blackfriars
Meldrum Bros.	10, City Rd., Manchester

Galvanized Ironwork.

Blackwall Galvanized Iron Co., Ltd.	Corbet Court, E.C.
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Gas Compressors.

Elworthy H. S.	239, Dashwood House, New Broad St., E.C.
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Gas Engines.—(See *Engines, Gas.*)**Gas Exhausters.**

Allen W. H., Son, & Co.	Queen's Engineering
Baker Blower Engineering Co.	[Works, Bedford Stanley Works, Sheffield
Donkin B., & Co., Ltd.	Southwark Park Rd., S.E. (born, E.C.
Gwynne & Co.	Brooke St. Works, Hol-
Körting Brothers	53, Victoria St., West- minster
Meldrum Bros.	10, City Rd., Manchester
Owens S., & Co.	Whitefriars St., E.C.
Samuelson & Co., Ltd.	Banbury, Oxon

Gasholders.

Detombay, Delange et Cie.	Hoboken, near Antwerp
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Gas Producers.

Dowson Economic Gas & Power Co., Ltd.	39, Old Queen St., West- minster, S.W.
Hydro-Kinetic Engineering Syndicate, Ltd.	Corporation St., Bir- mingham
Mason W. F., Ltd.	Manchester

Gas Works (Plant for).

Fielding & Platt, Ltd.	Gloucester
Hanna, Donald & Wilson	Paisley, N.B.
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Wood R. D., & Co.	Philadelphia, U.S.A.

Gauge Glass Cutters.

Green & Boulding	105, Bunhill Row, E.C.
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Gauge Glasses.

Butterworth Bros., Ltd.	Newton Heath Glass Works, Manchester
Guilbert-Martin	1 & 2, Falcon St., E.C.
Klinger Richard, & Co.	66, Fenchurch St., E.C.
McInnes T. S., & Co., Ltd.	42, Clyde Place, Glasgow
Moncrieff John	Perth, Scotland
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Tomey Joseph, & Sons, Ltd.	Aston, Birmingham

Gauges (Caliper and Micrometer).

Kirsch Aug.	Damm - Aschaffenburg, Bavaria
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Gauges (Pressure).

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester (W.C.
Elliott Brothers	101, St. Martin's Lane,
McInnes T. S., & Co., Ltd.	42, Clyde Place, Glasgow
Negretti & Zambra	Holborn Viaduct, E.C.
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Smith Brothers & Co.	Hyson Green Works, Nottingham
Storey I., & Sons	Knott Mill, Manchester
Treasure J. B., & Co.	8, Vauxhall Rd., Liverpool

Gearing.—(See *Wheels, Geared.*)**Girders.**

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Arrol's Bridge & Roof Co., Ltd.	Germiston Wks., Glasgow
Ashbury Railway Carriage & Iron Co., Ltd.	Openshaw, Manchester
Craig A. F., & Co., Ltd.	Paisley, N.B.
De Bergue & Co., Ltd.	Manchester
Dorman, Long & Co., Ltd.	19, Victoria St., Westmin- ster, S.W.
Edwards & Co.	Millwall, E.
Findlay Alexander, & Co.	Motherwell, N.B.
Heenan & Froude	Newton Heath Ironwks., near Manchester
Isca Foundry & Engineer- ing Co.	Newport, Mon.
Leeds Steel Works, Ltd.	Leeds
Measures Bros., Ltd.	Southwark St., S.E.
Moreland Richard, & Son, Ltd.	3, Old St., E.C. [Garston Hamilton Iron Works
Morton Francis, & Co., Ltd	Springhill, Birmingham
Piggott Thos., & Co., Ltd.	Eglington Engine Works, Glasgow
Smith A. W., & Co., Ltd.	Blackburn, Lancashire
Yates & Thom	Eccleston Ironworks, Pimlico, and Hayle Foundry Wharf, Nine Elms, S.W.

Glazing.

Grover & Co., Ltd.	Britannia Works, Whar Rd., N.
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**Gold-Crushing and Amalgamating
Machinery.**

Askham Bros. & Wilson, Ltd.	Sheffield
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Grusonwerk	Magdeburg-Buckau
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Johnson Wm., & Sons	Castleton Foundry, Arm- ley, Leeds
Stamm W. (Grusonwerk)	25, College Hill, E.C.

Governors (Engine).

Braithwaite Isaac, & Son	Kendal
Hartnell Wilson	Volt Works, Kirkstall Rd., Leeds
Mason Regulator Co.	Boston, Mass, U.S.A.
Napier Brothers, Ltd.	100, Hyde Park St., [Glasgow
Pollock, Macnab & High- gate	Shettleston, Glasgow

Governors (Engine).—Continued.

Schäffer & Budenberg ..	Whitworth St., London Rd., Manchester
Steven & Struthers ..	Glasgow
Storey L., & Sons ..	Knott Mill, Manchester
Tangyes Limited ..	Cornwall Wks., Birmingham
Turner E. R. & F., Ltd. ..	(132) Ipewich

Grain Cleaning Machinery.

Boby Robert, Ltd. ..	St. Andrew's Works, Bury St. Edmunds
Dell Wm. R., & Son ..	26, Mark Lane, E.C.
Simon Henry, Ltd. ..	20, Mount St., Manchester
Whitmore & Binyon ..	Wickham Market; & 64, Mark Lane, E.C.

Grain Storing and Warehousing Plant.

Simon Henry, Ltd. ..	20, Mount St., Manchester
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Graphite (Lubricating).

Dixon Jos., Crucible Co. ..	28, Victoria St., S.W.
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Grinding Machinery.

Askham Bros., & Wilson, Ltd.	Sheffield
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hardy Patent Pick Co., Ltd.	Sheffield
Jessop W., & Sons, Ltd. ..	Sheffield
Johnson Wm., & Sons ..	Castleton Foundry, Armley, Leeds
Legg William F. ..	Newbridge, Wolverhampton
Mason Bros. ..	Brandon St., Leicester
Stamm W. (Grusonwerk) ..	25, College Hill, E.C.

Grindstones.

Kell Richard, & Co. ..	Newcastle-on-Tyne
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Gun-Making Machinery.

Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
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Gunpowder Machinery.

Baker Blower Engineering Co. ..	Stanley Works, Sheffield
Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
Hall J. & E., Ltd. ..	23, St. Swithin's Lane, E.C.
Stamm W. (Grusonwerk) ..	25, College Hill, E.C.
Taylor & Challen, Ltd. ..	Birmingham

Guns and Gun Forgings.

Brown John, & Co., Ltd. ..	Sheffield
Stamm W. (Grusonwerk) ..	25, College Hill, E.C.
Vickers, Sons & Maxim, Ltd.	Sheffield

Gutta-Percha Machinery.

Werner, Pfeiderer & Perkins, Ltd. ..	117, Queen Victoria St., E.C.
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Hammers (Gas).

Tangyes Limited ..	Cornwall Works, Birmingham
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Hammers (Power).

Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
Massey B. & S. ..	Openshaw, Manchester
Player W. & J. ..	Lionel St., Birmingham
Taite, Howard & Co., Ltd.	63, Queen Victoria St., E.C.
Thwaites Brothers, Ltd. ..	Vulcan Ironwks, Bradford

Hammers (Steam).—(See Steam Hammers.)**Heating Apparatus.**

American Blower Co. ..	70, Gracechurch St., E.C.
Bradford Thomas, & Co. ..	High Holborn, W.C.; and Crescent Ironwks., Manchester [E.C.]
Crompton & Co., Ltd. ..	Mansion House B'ldings, 98, Commercial Rd. East, E.
Fraser W. J., & Co. ..	98, Commercial Rd. East, E.
Higginbottom & Co., Ltd.	Seel St., Liverpool
Körting Brothers ..	53, Victoria St., Westminster [chester]
Royle J. J. ..	Gt. Bridgewater St., Manchester
Thames Bank Iron Co. ..	Upper Ground St., S.E.
Tullis D. & J., Ltd. ..	Kilbowie Ironworks, near Glasgow

Hoisting Machinery.—(See also Cranes.)

Bailey W. H., & Co., Ltd. ..	Albion Works, Salford, Manchester
Bedford Engineering Co. ..	Bedford
Berry Henry, & Co., Ltd. ..	Croydon Works, Leeds
Brown Hoisting & Conveying Machine Co. ..	Cleveland, Ohio, U.S.A.
Burton C.W., Griffiths & Co.	1, 2 & 3, Ludgate Square, Ludgate Hill, E.C.
Chaplin Alex., & Co. ..	Govan, Glasgow
Coles H. J. ..	London Crane Works, Derby
Craig A. F., & Co., Ltd. ..	Paisley, N.B. [Glasgow]
Drysdale & Co. ..	Bon Accord Engine Wks., Gloucester
Fielding & Platt, Ltd. ..	43, Threadneedle St., E.C.
Fraser & Chalmers, Ltd. ..	Berkley St., Birmingham
Gibbins R. C., & Co. ..	Greenock, N.B.
Houston J. & R. ..	Bow, London, E.
Hunter & English ..	Salford Rolling Mills, [Manchester]
Jackson P. R., & Co., Ltd.	Leicester & London
Jessop & Appley Bros. (Leicester & London), Ltd.	Lincoln
Robey & Co., Ltd. ..	Queen's Road, Battersea
Smith A., & Stevens ..	25, College Hill, E.C.
Stamm W. (Grusonwerk) ..	20, Southwark Bridge Rd., S.E. [E.C.]
Stannah J. ..	63, Queen Victoria St., Cornwall Works, Birmingham
Taite, Howard & Co., Ltd.	
Tangyes Limited ..	

Wellman-Seaver Engineering Co. ..	Cleveland, Ohio, U.S.A.
Wilson John H., & Co., Ltd.	Sandhills, Liverpool

Hose Pipes.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Merryweather & Sons, Ltd.	63, Long Acre, W.C.
Moseley David, & Sons ..	Ardwick, Manchester
Tullis John, & Son ..	St. Ann's Leather Wks., Glasgow
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.
Woodite Works ..	Mitcham Common, Surrey
Worthington Pumping Engine Co. ..	153, Queen Victoria St., E.C.

Hydraulic Machinery.

Abbot John, & Co., Ltd.	Park Works, Gateshead-on-Tyne
Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Belliss G. E., & Co., Ltd.	Ledsam St. Works, Birmingham
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Campbell & Calderwood	Soho Engine Wks., Paisley
Coalbrookdale Co., Ltd.	Coalbrookdale, R.S.O., Shropshire
Coates Victor, & Co., Ltd.	Lagan Foundry, Belfast
Coles H. J.	London Crane Works, Carlisle [Derby]
Cowans, Sheldon & Co., Ltd.	Paisley, N.B.
Craig A. F., & Co., Ltd.	Bon Accord Eng. Wks., Glasgow
Drysdale & Co.	Millwall, E.
East Ferry Road Engineering Works Co., Ltd.	Gloucester
Fielding & Platt, Ltd. (Tweddell's System)	Kilmarnock, N.B.
Glenfield Co., Ltd.	Leeds
Greenwood & Batley, Ltd.	Leeds
Hathorn, Davey & Co.	Leeds
Lamberton & Co.	Coatbridge, N.B.
Leeds Engineering and Hydraulic Co.	Providence Wks., Cross Stamford St., Leeds
Marshall, Fleming & Jack.	Motherwell, N.B.
Middleton, Robert	Sheepscar Foundry, Leeds
Musgrave Bros.	Crown Point Foundry, Leeds
Owens S., & Co.	Whitefriars St., E.C.
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Rice & Co.	Neville Works, Elland Rd., Leeds
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Smith A., & Stevens	Queen's Rd., Battersea
Smith Brothers & Co.	Kingston Engine Works, Glasgow [Glasgow]
Smith Hugh, & Co.	Cornwall Works, Birmingham
Tangyes Limited	97, Queen Victoria St., E.C.
Warner R., & Co.	Philadelphia, U.S.A.
Wood R. D., & Co.	Blackburn, Lancashire
Yates & Thom	

Hydraulic Presses.

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Bessemer Hy., & Co., Ltd.	Sheffield
Coates Victor, & Co., Ltd.	Lagan Foundry, Belfast
Coles H. J.	London Crane Works, Derby
Drysdale & Co.	Bon Accord Engineering Works, Glasgow
Fielding & Platt, Ltd.	Gloucester
Greenwood & Batley, Ltd.	Leeds
Grusonwerk	Magdeburg-Buckau
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hayward-Tyler & Co.	90 & 92, Whitecross St., Leicester & London
Jessop & Appleby Bros. (Leicester & London), Ltd.	

Hydraulic Presses.—Continued.

Leeds Engineering & Hydraulic Co.	Providence Works, Cross Stamford St., Leeds
Middleton Robert	Sheepscar Foundry, Leeds
Musgrave Bros.	Crown Point Foundry, Leeds
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Rice & Co.	Neville Works, Elland
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Smith Hugh, & Co.	Glasgow
Stothert & Pitt, Ltd.	Bath
Tangyes Limited	Cornwall Wks., Birmingham
Taylor & Challen, Ltd.	Birmingham
Waygood R., & Co., Ltd.	Falmouth Rd., S.E.

Hydraulic Rams.

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Blake John, Ltd.	Oxford St. Works, Accrington, Lancs.
Owens S., & Co.	Whitefriars St., E.C.
Warner R., & Co.	97, Queen Victoria St., E.C.

Hydro-Extractors.

Broadbent Thos., & Sons, Ltd.	Chapel Hill, Huddersfield
Manlove, Allott & Co., Ltd.	Nottingham [Glasgow]
Tullis D. & J., Ltd.	Kilbowie Ironworks, near

Hydrokineters and Temperature Equalisers.

Weir G. & J., Ltd.	Holm Foundry, Cathcart Glasgow
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Ice-Making Machines.

Allen W. H., Son, & Co.	Queen's Engineering Works, Bedford
Allis Edward P., Co.	Milwaukee, Wis., U.S.A.
Hall J. & E., Ltd.	23, St. Swithin's Lane, E.C.
Linde British Refrigeration Co., Ltd.	35, Queen Victoria St., E.C.
Pontifex & Wood, Ltd.	Union Foundry, Derby
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Standard Ammonia Co., Ltd.	Old Ford, E.

Incandescence Lamps.

British Thomson-Houston Co., Ltd.	83, Cannon St., E.O.
Edison & Swan United Electric Light Company, Ltd.	36 & 37, Queen St., Cheapside, E.C.

India-Rubber Goods.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
India-Rubber, Gutta Percha & Telegraph Wks. Co., Ltd.	Silvertown, Essex
Moseley David, & Sons	Ardwick, Manchester
Winter, F.	8, Redcross St., E.C.
Woodite Works	Mitcham Common, Surrey

India-Rubber Machinery.

Johnson and Phillips	Victoria Works, Old Charlton, Kent
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Indicators (Steam Engine).

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Crosby Steam Gage & Valve Co.	75, Queen Victoria St., E.C.
Elliott Brothers	101, St. Martin's Lane, W.C.
Hannan & Buchanan	75, Robertson St., Glasgow
McInnes T. S., & Co., Ltd.	42, Clyde Place, Glasgow
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne

Injectors.

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Dempster, Moore & Co.	49, Robertson St., Glasg'w
Empire Engineering Co.	Failsworth, Manchester
Green & Boulding	105, Bunhill Row, E.C.
Gresham & Craven, Ltd.	Manchester (Bridge, E.C.)
Hancock Inspirator Co.	Old Swan Wharf, London
Holden & Brooke, Ltd.	Sirius Wks., West Gorton, Manchester
Klinger Richard, & Co.	66, Fenchurch St., E.C.
Körting Brothers	53, Victoria St., Westminster
Lunkenheimer Co.	Cincinnati, O., U.S.A.
Manlove, Elliott & Co., Ltd.	Nottingham
Patent Exhaust Steam Injector Co., Ltd.	4, St. Ann's Square, Manchester
Rhodes B., & Son	Bow Brass Wks., London Rd., Manchester
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.

Instruments (Recording) Makers.

Elliott Brothers	101, St. Martin's Lane, W.C.
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Instruments (Surveying).

Baker C.	244, High Holborn, W.C.
Negretti & Zambra	Holborn Viaduct, E.C.
Stanley W. F.	Great Turnstile, Holborn

Insulating Materials.

Wiggins F., & Sons	10, Tower Hill, & 102 & 103, Minories, E.C.
Woodite Works	Mitcham Common, Surrey

Insurance Companies.

National Boiler & General Insurance Co., Ltd.	22, St. Ann's Square, Manchester
Sun Insurance Office	63, Threadneedle St., E.C.
Vulcan Boiler & General Insurance Co., Ltd.	67, King St., Manchester

Iron Buildings.

Blackwall Galvanized Iron Co., Ltd.	Corbet Court, E.C.
Dixon Isaac, & Co.	Spekland Rd., Liverpool
Heenan & Froude	Newton Heath Ironworks, near Manchester
Hill & Smith	Brierley Hill Ironworks near Dudley
Morton Francis, & Co., Ltd.	Hamilton Iron Works, Garston

Iron (Charcoal Pig).

Kittel & Co., Ltd.	London, E.C.
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Iron Founders.—(See Castings, Iron.)**Iron Merchants.**

Birch John, & Co., Ltd.	10 & 11, Queen St. Pl., E.C.
Dorman, Long & Co., Ltd.	19, Victoria St., Westminster
Henderson & Glass	Liverpool
Penney Alexander, & Co.	107, Fenchurch St., E.C.

Iron (Pig).

Ebbw Vale Steel Iron & Coal Co., Ltd.	Mon., South Wales
Glasgow Iron & Steel Co., Ltd.	36, St. Vincent Pl., Glasg'w

Iron and Steel Works (Plant for).

Craig & Donald	Johnstone, near Glasgow
Crow, Harvey & Co.	Park Grove Ironworks, Glasgow
Detombay, Delange & Cie.	Hoboken, near Antwerp
Fielding & Platt, Ltd.	Gloucester
Galloways Limited	Manchester
Lamberton & Co.	Coatbridge, N.B.
McOnie, Harvey & Co., Ltd.	Scotland St. Engine Works, Glasgow
Musgrave Bros.	Crown Pnt. Fndry., Leeds
Poole R., & Son Co.	Baltimore, Md., U.S.A.
Rice & Co.	Neville Works, Elland
Smith Hugh, & Co.	Glasgow Rd., Leeds
Thwaites Bros., Ltd.	Bradford
Walker Bros.	Pagefield Ironworks, Wigan
Wellman-Seaver Engineering Co.	Cleveland, Ohio, U.S.A.

Jacks (Lifting).

Dempster, Moore & Co.	49, Robertson St., Glasgow
Gibbons R. C., & Co.	Berkley St., Birmingham
Tangyes Limited	Cornwall Works, B'ham

Jointing Materials.

Asbestos Co., Ltd. (Bell's)	59, Southwark St., S.E.
Asbestos Co., Ltd. (The United)	Dock House, Billiter St., E.C.
House & Co., Ltd.	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Jenkins Bros.	71, John St., New York, U.S.A.
Moseley David, & Sons	Ardwick, Manchester
Mosses & Mitchell	68, 69, 70 & 71, Chiswell St., E.C.

Joists, Rolled (Iron and Steel).

Measures Bros., Ltd.	Southwark St., S.E.
Penney Alexander, & Co.	107, Fenchurch St., E.C.
Shelton Iron, Steel & Coal Co., Ltd.	Stoke-on-Trent, & 122, Cannon St., E.C.
Young H., & Co., Ltd.	Eccleston Ironworks, Pimlico, and Hayle Foundry Wharf, Nine Elms, S.W.

Keys, Cotters and Pins.

Mills James, Exors. of	Bredbury Steel Works, near Stockport
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Ladies.

M'Neil C.	Kinning Park Ironworks, Glasgow
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Lamps.

Adam J. M., & Scott	Ibroy Ironworks, Glasgow
Wells A. C., & Co.	102, Midland Rd., St. Pancras, N.W.

Lathes.—(See Machine Tools.)**Launches and Yachts.**

Bow, McLachlan & Co. . .	Thistle Works, Paisley
Burnet L., & Co. . .	Govan, Glasgow
Campbell & Calderwood . .	Soho Engine Wks., Paisley
Chaplin Alex., & Co. . .	Cranstonhill Engine Wks.,
Cochran & Co. . .	Birkenhead [Glasgow]
Day, Summers & Co. . .	Northam Ironworks,
	Southampton
Edwards & Co. . .	Millwall, E.
Fleming & Ferguson, Ltd. .	Paisley, N.B.
Forrest & Son, Ltd. . .	101, Leadenhall St., E.C.
Green & Boulding . .	21, Featherstone St., E.C.
Hanna, Donald & Wilson . .	Paisley, N.B. [ton
Hayes Edward . .	Stony Stratford, Wolver-
McKie & Baxter . .	Copland Works, Govan,
	Glasgow
Parsons Marine Steam	Turbinia Works, Wall-
Turbine Co., Ltd. . .	send-on-Tyne
Reid William, & Co. . .	112, Fenchurch St., E.C.
Ross & Duncan . .	Whitefield Wks., Glasgow
Royal Dutch Forge Co. . .	Leiden, Holland
Schichau F. . .	Elbing-Danzig, Prussia
Simons W., & Co., Ltd. . .	Renfrew, N.B.
Simpson, Strickland & Co.,	
Ltd. . .	Dartmouth, S. Devon
Thornycroft J. I., & Co. . .	Chiswick, W.
Voeper & Co., Ltd. . .	Portsmouth
White J. Samuel, & Co.,	
Ltd. . .	Medina Dock, Cowes
Yarrow & Co., Ltd. . .	Poplar, E.

Laundry Machinery.

Bradford Thomas, & Co. . .	High Holborn, W.C.; &
	Crescent Ironworks,
	Manchester
Braithwaite Isaac, & Son . .	Kendal
Manlove, Alliott & Co., Ltd. .	Nottingham
Summerscales W., & Sons,	
Ltd. . .	Phoenix Fndry, Keighley
Tullis D. & J., Ltd. . .	Kilbowie Ironworks, nr.
	Glasgow

Leather Machinery.

Drysdale & Co. . .	Bon Accord Engine Wks.,
Stothert & Pitt, Ltd. . .	Bath [Glasgow]

Lifts.

Abbot John, & Co., Ltd. . .	Park Works, Gateshead-
	on-Tyne [Manchester
Bailey W. H., & Co., Ltd. . .	Albion Works, Salford,
Berry Henry, & Co., Ltd. . .	Croydon Works, Leeds
Brooke J. W., & Co., Ltd. . .	Adrian Ironwks., Lowes-
	toft [Derby
Coles H. J. . .	London Crane Works,
Drysdale & Co. . .	Bon Accord Engine Wks.,
Fielding & Platt, Ltd. . .	Gloucester [Glasgow
Gibbins R. C., & Co. . .	Berkley St., Birmingham
Hall J. & E., Ltd. . .	23, St. Swin's Lane,
Hunter & English . .	Bow, E. [E.C.
Jessop & Appleby Bros.	
(Leicester & London), Ltd. .	Leicester & London
Rice & Co. . .	Neville Works, Elland
	Rd., Leeds
Smith Archd., & Stevens . .	Queen's Rd., Battersea
Stannah J. . .	20, Southwark Bridge
	Rd., S.E. [ham
Tangyes Limited . .	Cornwall Wks., Birming-
Waygood R., & Co., Ltd. . .	Falmouth Rd., S.E.

Light Railways.—(See Railways, Light and Portable.)**Lighting Apparatus.**

Adam J. M., & Scott . .	Ibrox Ironwks., Glasgow
Wells A. C., & Co. . .	102, Midland Rd., St.
	Pancras, N.W.

Lightning Conductors.

Bailey W. H., & Co., Ltd. . .	Albion Works, Salford,
	Manchester
Blackburn, Starling & Co.,	139, Arkwright St., Not-
Ltd. . .	tingham

Lime Works (Plant for).

Smith F. L., & Co. . .	Palace Ch'mb'rs, 9, Bridge
	St., Westminster, S.W.

Liquid Fuel (Apparatus for Burning).

Green & Boulding . .	21, Featherstone St., E.C.
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Lithographers.

Cook Robt. J., & Hammond . .	2 & 6, Tothill St., West-
	minster, S.W.
Kell Thos., & Son . .	40, King St., Covent
	Garden, W.C.

Lock Nuts and Nut-Locking Appliances.

Grover & Co., Ltd. . .	Wharf Rd., N.
Helicoid Locknut Patents	147, Dashwood House,
(Parent) Co., Ltd. . .	New Broad St., E.C.

Locomotive Engines.—(See Engines, Locomotive.)**Locomotives (Mountings for).**

Bailey W. H., & Co., Ltd. . .	Albion Works, Salford,
	Manchester
Storey I., & Sons . .	Knott Mill, Manchester

Looms.

Craig A. F., & Co., Ltd. . .	Paisley, N.B.
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Lubricants and Oils.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Barns W., & Son . .	Perforating Works, Chal-
	ton St., N.W.
Bradford J., & Sons . .	44, Chapel St., Liverpool
Bremner John A., & Co. . .	Albert St., Manchester
Dixon Jos., Crucible Co. . .	23, Victoria St., S.W.
Engelbert & Co. . .	44-47, Bishopgate St.,
	E.C.
Henry Wells Oil Co. . .	Imperial Oil Works,
	Deansgate, Manchester
House & Co., Ltd. . .	Marlboro' Wks., 36, Vaux-
	hall Rd., Liverpool
Mica Lubricant Co. . .	South Shields [pool
Palfreyman W. H., & Co. . .	17, Goree-Piazzas, Liver-
Price's Patent Candle Co.,	
Ltd. . .	Battersea, S.W.
Price's Patent Candle Co.,	
Ltd. . .	3, Cross St., Manchester
Ragosine & Co. . .	7, Idol Lane, E.C.
Snowdon, Sons & Co., Ltd. .	Millwall, E.
Stern Bros. . .	57, Gracechurch St., E.C.
Trier Bros. . .	1, Great George St.,
	Westminster
Willcox W. H., & Co., Ltd. .	23, Southwark St., S.E.

Lubricators.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Berend O., & Co., Ltd.	Dunedin House, Basinghall Avenue, E.C.
Butterworth Bros., Ltd.	Newton Heath Glass Works, Manchester
Chapman L.	Sail Street, Lambeth, S.E.
Crosby Steam Gage and Valve Co.	75, Qn. Victoria St., E.C.
Empire Engineering Co.	Failsforth, Manchester
Green & Boulding	105, Bunhill Row, E.C.
House & Co., Ltd.	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Hunt & Mitton	Oozells St. North, Birmingham
Klinger Richard, & Co.	66, Fenchurch St., E.C.
Körting Brothers	53, Victoria St., M'chester
Lunkenheimer Co.	Cincinnati, Ohio, U.S.A.
Michigan Lubricator Co.	Detroit, Mich., U.S.A.
Nettlefolds Limited	Birmingham
Pigroft Thos., & Co.	Springhill, Birmingham
Reid Wm., & Co.	112, Fenchurch St., E.C.
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Stern Bros.	57, Gracechurch St., E.C.
Tangyes Limited	Cornwall Works, Birmingham
Trier Brothers	1, Gt. George St., Westminster
Vacuum Oil Co.	Albany Buildings, Victoria St., Westminster, S.W.
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.

Machine Tools.

American Blower Co.	70, Gracechurch St., E.C.
Arcdiale Jas., & Co.	Ledsam St., Birmingham
Atlas Engineering Co.	Levenshulme, M'chester
Bement, Miles, & Co.	Philadelphia, Pa., U.S.A.
Berry F., & Sons	Calderdale Works, Sowerby Bridge
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Brainard Milling Machine Co.	156, Oliver St., Boston, Mass., U.S.A.
Britannia Co.	Colchester
Buck & Hickman	2 & 4, Whitechapel Rd., E.
Bullard Machine Tool Co.	Bridgeport, Conn., U.S.A.
Burton C. W., Griffiths & Co.	1, 2 & 3, Ludgate Square, Ludgate Hill, E.C.
Butler J., & Co.	Victoria Ironworks, Halifax
Cameron John	Oldfield Road Ironworks, Salford
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., Finsbury, E.C.
Clark's Engineering and Machine Tool Co., Ltd.	Luton, Beds.
Cleveland Machine Screw Co.	25, Albert St., Dale End, Birmingham
Craig & Donald	Johnstone, near Glasgow
Crow, Harvey & Co.	Park Grove Ironworks, Glasgow
Curtis & Curtis	10, Garden St., Bridgeport, Conn., U.S.A.
Daniell S. A., Ltd.	Edward St. Parade, Birmingham
Davis & Primrose	Etna Ironworks, Bangor Road, Leith, N.B.
De Bergue & Co., Ltd.	Manchester
Dempster, Moore & Co.	49, Robertson St., Glasgow
Donald James T., & Co., Ltd.	345, Argyle St., Glasgow
Fielding & Platt, Ltd.	Gloucester
Galloways Limited	Manchester

Machine Tools.—Continued.

Greenwood & Batley, Ltd.	Albion Works, Leeds
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Hendey Machine Co.	Torrington, Conn., U.S.A.
Herbert Alfred, Ltd.	Coventry
Hetherington John, & Sons	Manchester
Hill Isaac, & Son	St. George's Engineering Works, Woods Lane, Derby
Hulse & Co., Ltd.	Ordsal Works, Salford
Jones & Lamson Machine Co.	Exchange Bldgs, Stephenson Place, Birmingham
Keighley Engineering Co.	Keighley
Kendall & Gent	Manchester
Lang J., & Sons	Johnstone, N.B.
Leeds Engineering and Hydraulic Co.	Providence Works, Cross Stamford St., Leeds
Loudon Brothers	Clyde Engineering Wks., Johnstone, N.B.
MacLellan P. & W., Ltd.	129, Trongate, Glasgow
Muir Wm., & Co., Ltd.	Sherbourne St., Manchester
Musgrave Bros.	Crown Point Foundry, Leeds
Newark Machine Tool Works	Newark, N.J., U.S.A.
Newton Machine Tool Works (Incorp.)	Philadelphia, U.S.A.
Nicholson Jos. C., Tool Co.	Newcastle-on-Tyne
Niles Tool Works Co.	Hamilton, Ohio, U.S.A.
Niles Tool Works Co.	39, Victoria St., S.W.
Noble & Lund	Felling, nr. Newcastle-on-Tyne
Player W. & J.	Lionel St., Birmingham
Pratt Chuck Co.	Frankfort, New York, U.S.A.
Reeves A. R.	46, Queen Victoria St., Newcastle-on-Tyne
Rice & Co.	Neville Works, Elland Rd., Leeds
Richards Geo., & Co., Ltd.	Broadheath, near Manchester
Ryder William	Beehive Works, Bolton
Scott Bros.	Halifax
Soriven & Co.	Leeds Old Foundry, Marsh Lane, Leeds
Selig, Sonnenthal & Co.	85, Qn. Victoria St., E.C.
Sellers William, & Co. (Incorporated)	Philadelphia, Penn., U.S.A.
Shanks Thomas, & Co.	Union Ironworks, Johnstone
Smith Brothers & Co.	Kingston Engine Works, Glasgow
Smith & Coventry, Ltd.	Ordsal Lane, Manchester
Smith Hugh, & Co.	Possil Engine Works, [Glasgow]
Smith Thos., & Sons, of Saltley, Ltd.	Saltley Mill, Birmingham
Tait, Howard & Co., Ltd.	63, Queen Victoria St., E.C.
Tangyes Machine Tool Co., Ltd.	Oxford Works, Birmingham
Tattersall A. A.	Mill Hill Tool Works, Blackburn, [Manchester]
Taylor C.	Bartholomew St., Birmingham
Taylor & Challen, Ltd.	[Glasgow]
Tullis D. & J., Ltd.	Kilbowie Ironworks, near Glasgow
Ward H. W., & Co.	Lionel St., Birmingham
Webster & Bennett	Coventry
Widdowson J. H.	Ordsal Lane, Salford
Wilkinson G., & Sons	Bradford Rd. Tool Works, Keighley

Manganese Steel Castings and Forgings.

Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
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Manhole Doors.

McNeil C. Kinning Park Ironworks,
 Mount Vernon Iron & Steel (Glasgow
 Co., Ltd. Shettleston, Glasgow

Mathematical Instruments (Makers).

Negretti & Zambra Holborn Viaduct, E.C.
 Stanley W. F. Great Turnstile, Hol-
 born, W.C.

Mechanical Engineers (Consulting).

Horsfield Ralph, & Co. Chapel-en-le-Frith,
 Derbyshire

Metallio Packing.

Lancaster & Tonge, Ltd. Pendleton, nr Manchester
 Murray J. 8, Anderson Quay, Glas-
 gow
 United States Metallio Soho Works, Thornton
 Packing Co., Ltd. Rd., Bradford
 Von der Heyde J. Bennett 6, Brown St., Manchester

Metals (Phosphor, Alloys, &c.).

Anti-Attrition Metal Co., Emerson St., South-
 Ltd. wark, S.E.
 Berend O., & Co., Ltd. Dunedin House, Basing-
 hall Avenue, E.C.
 Billington & Newton Longport, Staffordshire
 British Aluminium Co., 9, Victoria St., West-
 Ltd. minster, S.W.
 Bull's Metal & Melloid Co., 6, Jeffrey's Square, St.
 Ltd. Mary Axe, E.C.
 Delta Metal Co., Ltd. 110, Cannon St., E.C.
 Heagard Metal Co., 137, Lionel St., Birming-
 ham
 Magnolia Anti-Friction Met- 49, Queen Victoria St., E.C.
 al Co. of Gt. Britain, Ltd.
 National Engineering Sup- 312 & 314, Argyle St.,
 ply Co., Ltd. Glasgow
 Phosphor Bronze Co., Ltd. Sumner St., S.E.
 Storey I., & Sons Knott Mill, Manchester
 Tandem Smelting Syndi- Jubilee Buildings, Queen
 cate, Ltd. Victoria St., E.C.
 United Alkali Co., Ltd. Exchange Buildings,
 Liverpool
 Watson Henry, & Sons High Bridge Works, New-
 castle-on-Tyne.

Meters.

Scott Ernest, & Mountain, } Close Works, Newcastle-
 Ltd. on-Tyne
 Universal Water Meter
 Co., Ltd. 36-38, Arlington St., N.
 Worthington Pumping En- 153, Queen Victoria St.
 gine Co. E.C.

Mica Merchants.

Wiggins F., & Sons 16, Tower Hill, & 102 &
 103, Minories, E.C.

Mill Gearing, Shafting, &c.

Baker Blower Engineering Stanley Works, Sheffield
 Co.
 Bessemer Henry, & Co.,
 Ltd. Sheffield
 Bodley Bros. & Co. Exeter
 Brown, Bayley's Steel Wks.,
 Ltd. Sheffield
 Greenwood & Batley, Ltd. Leeds
 Hadfield's Steel Foundry
 Co., Ltd. Hecla Works, Sheffield

Mill Gearing, Shafting, &c.—Continued.

Hawthorn R. & W., Leslie Newcastle-on-Tyne
 & Co., Ltd. Salford Rolling Mills,
 Jackson P. R., & Co., Ltd. Manchester
 Jessop W., & Sons, Ltd. Sheffield
 Kirkstall Forge Co. Leeds
 Mackies, Ltd. Berks Ironwks., Reading
 Unbreakable Pulley and } West Gorton, Man-
 Mill Gearing Co., Ltd. chester
 Whitmore & Binyon Wickham Market; & 64,
 Mark Lane, E.C.

Mill Machinery (Flour, Corn, and Rice).

Allis Edward P., Co. Milwaukee, Wis., U.S.A.
 Clayton & Shuttleworth Lincoln
 Dell William R., & Son 26, Mark Lane, E.C.
 Higginbottom & Co., Ltd. Seel St., Liverpool
 Hunter & English Bow, London, E.
 Marshall, Sons & Co., Ltd. Gainsborough
 Poole R., & Son Co. Baltimore, Md., U.S.A.
 Ransomes, Sims & Jefferies,
 Ltd. Ipswich
 Robey & Co., Ltd. Lincoln
 Ruston, Proctor & Co., Ltd. Sheaf Ironwks., Lincoln
 Simon Henry, Ltd. 20, Mount St., Manchester
 Stamm W. (Grusonwerk) 25, College Hill, E.C.
 Turner E. R. & F., Ltd. (132) Ipswich
 Whitmore & Binyon Wickham Market; & 64,
 Mark Lane, E.C.
 Yates & Thom Blackburn, Lancashire

Milling Cutters.

Neat Charles, & Co. 112, Queen Victoria St.,
 E.C.
 Spear & Jackson Aetna Works, Sheffield

Mills (Paint, Oil, Mortar, &c.).

Greenwood & Batley, Ltd. Leeds
 Grusonwerk Magdeburg-Buckau
 Horsfield Ralph, & Co. Chapel-en-le-Frith,
 Derbyshire
 Mason Bros. Brandon St., Leicester
 Roe, Downs & Thompson,
 Ltd. Old Foundry, Hull
 Smedley Bros., Ltd. Belper, Derbyshire

Mining Machinery.

Askham Bros. & Wilson, Ltd. Sheffield [Manchester
 Bailey W. H., & Co., Ltd. Albion Works, Salford,
 Clay Cross Co. Clay Cross, near Chester-
 field
 Coles H. J. London Crane Works,
 Fowler J., & Co. (Leeds), [Derby
 Ltd. Leeds
 Fraser & Chalmers, Ltd. 43, Threadneedle St., E.C.
 Hadfield's Steel Foundry
 Co., Ltd. Hecla Works, Sheffield
 Hathorn, Davey & Co. Leeds
 Hayward-Tyler & Co. 90 & 92, Whitecross
 (Pumps) St., E.C.
 Hornsby R., & Sons, Ltd. Grantham
 Humboldt Engineering Kalk, near Cologne, Ger-
 Works Co. many
 Jessop & Appleby Bros. Leicester & London
 (Leicester & London), Ltd.
 Jessop W., & Sons, Ltd. Sheffield

Mining Machinery.—*Continued.*

Napier Brothers, Ltd.	100, Hyde Park St., Glasgow
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Lincoln
Schram Richard, & Co.	Cannon St. House, E.C.
Société Anonyme des Ateliers de Construction de La Meuse	Liege, Belgium
Stamm W. (Grusonwerk)	25, College Hill, E.C.
Tangyes Limited	Cornwall Works, Birmingham
Walker Bros.	Wigan
Whitmore & Binyon	Wickham Market & 64, Mark Lane, E.C.

Mint Machinery.

Greenwood & Batley, Ltd.	Albion Works, Leeds
Taylor & Challen, Ltd.	Birmingham

Mixers.

Young H., & Co., Ltd.	Eccleston Ironwks., Pimlico, & Hayle Foundry Wharf, Nine Elms, S.W.
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Model Makers.

Lucas & Davies	67, Farringdon Rd., E.C.
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Mortar Mills.

Fletcher John, & Sons	Eagle Foundry, Salford, Manchester
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Moulding Machines.

Whittaker Wm., & Sons	Oldham
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Non-Conducting Compositions.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Aston Chemical Co.	Birmingham
House & Co., Ltd.	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Leroy F., & Co.	Gray St., Commercial Rd., E.
Wallach Bros.	57, Gracechurch St., E.C.
Washington Chemical Co., Ltd.	Washington, R.S.O., Co. Durham

Oil Cans.

Kaye Jos., & Sons	Lock Works, Leeds
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Oil-Distilling Plant.

Napier Bros., Ltd.	100, Hyde Pk. St., Glas'w
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Oil Extractors.

Haigh W. B., & Co., Ltd.	Globe Ironwks., Oldham
National Engineering Supply Co., Ltd.	312 & 314, Argyle St., Glasgow

Oil Filters.

Berend O., & Co., Ltd.	Dunedin House, Basinghall Avenue, E.C.
Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
Wells A. C., & Co.	102, Midland Rd., St. Pancras, N.W.

Oil Mill Machinery.

Coles H. J.	London Crane Works, Derby
Greenwood & Batley, Ltd.	Albion Works, Leeds
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London Nottingham
Manlove, Alliott & Co., Ltd.	Sheepscar Foundry, Leeds
Middleton Robert	Crown Point Foundry, Leeds
Musgrave Brothers	
Poole R., & Son Co.	Baltimore, Md., U.S.A.
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Stamm W. (Grusonwerk)	25, College Hill, E.C.
Tangyes Limited	Cornwall Wks., Birmingham
Turner E. R. & F., Ltd.	(132) Ipswich
Waygood R., & Co., Ltd.	Falmouth Rd., S.E.

Oils.—(See *Lubricants.*)**Ore-Crushing Machinery.**

Bradley Pulverizer Co.	37, Walbrook, E.C.
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Hatfield's Steel Foundry Co., Ltd.	Irecla Works, Sheffield
Hornsbly R., & Sons, Ltd.	Graham
Humboldt Engineering Works Co.	[Germany Cologne, near Cologne]
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Jessop Wm., & Sons, Ltd.	Brightside Wks., Sheffield
Mason Bros.	Brandon St., Leicester
Robey & Co., Ltd.	Lincoln
Stamm W. (Grusonwerk)	25, College Hill, E.C.
Turner E. R. & F., Ltd.	(132) Ipswich

Packing (Engine and Hydraulic).—(See also *Metallic Packing.*)

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Asbestos Co., Ltd. (The United)	Dock House, Billiter St., E.C.
Frictionless Engine Packing Co., Ltd.	Cable Mills, Glasshouse St., Oldham Rd., Manchester
Green & Boulding	105, Bunhill Row, E.C.
House & Co., Ltd.	Marlboro' Wks., 36, Vauxhall Rd., Liverpool
Jenkins Brothers	71, John St., New York, U.S.A.
Lindsay R. B., & Co.	Plantation Quay (West), South Shields
Mica Lubricant Co.	8, Anderson Qy., Glasgow
Murray James	116, Cannon St., E.C.
Tuck & Co., Ltd.	
United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd.	14, Cook St., Liverpool
United States Metallic Packing Co., Ltd.	Soho Works, Thornton Rd., Bradford
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.
Woodite Works	Mitcham Common, Surrey

Paint and Putty Machinery.

Werner, Pfeiderer & Perkins, Ltd.	117, Queen Victoria St., E.C.
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Painters and Decorators.

Paul James, & Sons	386, Paisley Rd., Glasgow
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Paints, Varnishes, &c.

Asbestos Co., Ltd (Bell's) .. 59½, Southwark St., S.E.
 Asbestos Co., Ltd. (The) } Dock House, Billiter St.,
 United) E.C.
 Ragosine & Co. 7, Idol Lne., Gt. Tower St.
 Wailes, Dove & Co., Ltd. .. Newcastle-on-Tyne

Paper-Making Machinery.

Douglas & Grant Kirkcaldy, N.B.

Paper (Waterproof).

Willesden Paper & Canvas Works Willesden Junction, N.W.

Patent Agents.

Alexander E. P. 36, Southampton Bldgs., W.C.
 Brewer & Son 33, Chancery Lane, W.C.
 Cruikshank & Fairweather 62, St. Vincent St., Glasg'w
 Harris & Mills 23, Southampton Bldgs.,
 W.C.
 Jensen & Son 77, Chancery Lane, W.C.
 Moura & Wilson 5, Hospicio St. P.O. Box
 596, Rio de Janeiro
 Phillips & Leigh 22, Southampton Bldgs.,
 W.C.
 Redfern G. F., & Co. .. 4, South St., Finsbury, E.C.
 Thompson W. R. M., & Co. 96, Buchanan St., Glasgow
 Vaughan & Son 57, Chancery Lane, W.C.

Perforated Metals.

Barns W., & Son Perforating Works, Chal-
 ton St., N.W.

Permanent Way.

Bagnall W. G., Ltd. .. Castle Engine Works,
 Stafford [E.C.]
 Birch John & Co., Ltd. .. 10 & 11, Queen St. Place,
 Bolling & Lowe Laurence Pountney Hill,
 E.C.
 Evans & Widowfield .. 5, Bute Crescent, Cardiff
 Dick, Kerr & Co., Ltd. .. 110, Cannon St., E.C.
 Isca Foundry and Engi-
 neering Co. Newport, Mon.
 Penney Alexander, & Co. 107, Fenchurch St., E.C.

Petroleum Refining Plant.

Fraser W. J., & Co. .. 98, Commercial Rd. East,
 E.

Photography: Materials and Appliances for Photographic Printing and Copying Processes.

Halden J., & Co. 8, Albert Sq., Manchester

Picks, Shovels and Spades.

Hadfield's Steel Foundry Co., Ltd. Hecla Works, Sheffield

Pile Drivers.

Gibbins R. C., & Co. .. Berkley St., Birmingham
 Jessop & Appleyby Bros. (Leicester & London), Ltd. Leicester & London
 Whitaker Bros., Ltd. .. Horsforth, near Leeds

Piles and Pile Shoes.

Le Grand & Sutcliff .. 125, Bunhill Row, E.C.

Pipe Founders.—(See also Tubes.)

Abbot John, & Co., Ltd. .. Park Works, Gateshead-on-Tyne
 Clay Cross Co. Clay Cross, nr. Chesterfd.
 Isca Foundry & Engineer-
 ing Co. Newport, Mon.
 McNeal Pipe & Foundry } Land Title Building,
 Co. Philadelphia, PA., U.S.A.
 Pulsometer Engineering
 Co., Ltd. Nine Elms, S.W.

Pipes (Cast Iron).

Wood R. D., & Co. Philadelphia, U.S.A.

Pipes (Drain and Stoneware).

Doulton & Co., Ltd. .. Lambeth, S.E.
 Sankey J. H., & Son .. Canning Town, E.

Pipes (Large Lap-welded).

Aird Jos. Gt. Bridge, Staffordshire
 Deighton's Patent Flue & } Vulcan Works, Pepper
 Tube Co., Ltd. Rd., Leeds
 Howell & Co., Ltd. .. Brook Steel Works,
 Sheffield
 Lloyd & Lloyd, Ltd. .. Albion Tube Works,
 Marshall John, & Sons } Glasgow [Birmingham]
 Stewart A. & J., & Menzies, Ltd. .. 41, Oswald St., Glasgow

Pistons and Piston Rings.

Edmeston A., & Sons .. Cannon St., Salford
 Jackson P. R., & Co., Ltd. Salford Rolling Mills,
 Manchester
 Lancaster & Tonge, Ltd. .. Pendleton, Manchester
 Lockwood & Carlisle, Ltd. Eagle Foundry, Sheffield

Planing Machines.—(See Machine Tools)**Plates (Iron and Steel).**

Beardmore William, & Co. Parkhead Ironwks., Glas-
 Brown, Bayley's Steel Wks., [gow
 Ltd. Sheffield
 Brown John, & Co., Ltd. .. Sheffield
 Colville David, & Sons, Ltd. Motherwell, nr. Glasgow
 Glasgow Iron & Steel Co., } 36, St. Vincent Place,
 Ltd. Glasgow
 Jessop Wm., & Sons, Ltd. Sheffield
 Lanarkshire Steel Co., Ltd. Motherwell, N.B.
 Leeds Forge Co., Ltd. .. Leeds
 Shelton Iron, Steel and } Stoke-on-Trent; and 122,
 Coal Co., Ltd. Cannon St., E.C.
 Spencer John, & Sons, Ltd. Newburn Steel Works,
 Newcastle-on-Tyne
 Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq.,
 Glasgow
 Weardale Iron and Coal } George Yard, Up. Thames
 Coal Co., Ltd. St., E.C.

Plumber Blocks.

Coles H. J. London Crane Works,
 Derby [Essex]
 Hunt R., & Co. Atlas Works, Earls Colne,
 Mackies, Ltd. Berks Ironwks., Reading
 Richards Geo., & Co., Ltd. Broadheath, near Man-
 Smith & Grace Screw Boss chester
 Pulley Co., Ltd. Thrapston
 Taylor & Challen, Ltd. .. Birmingham
 Unbreakable Pulley & Mill
 Gearing Co., Ltd. West Gorton, Manchester

Portable Engines.—(See *Engines, Portable.*)**Portable Railways.**—(See *Railways, Portable.*)**Pottery and Encaustic Tile Machinery.**

Bodley Brothers & Co. .. Exeter

Presses (Fly and Screw).

Daniell S. A., Ltd. .. Edward St. Parade, Birmingham

Presses (Hydraulic).—(See *Hydraulic Presses.*)**Printers and Stationers.**

Partridge & Cooper .. 191 & 192, Fleet St., & 1 & 2, Chancery Lane, E.C.

Printing Machinery.

Greenwood & Batley, Ltd. Albion Works, Leeds

Propellers.

Baker Blower Engineering Co. .. Stanley Works, Sheffield
 Ross & Duncan .. Glasgow
 Scott Ernest, & Mountain, Ltd. .. Close Works, Newcastle-on-Tyne
 Thornycroft J. I., & Co. .. Chiswick, W.

Publishers.

Chapman & Hall, Ltd. .. Henrietta St., Covent Garden, W.C.
 Griffin Chas., & Co., Ltd. .. Exeter St., Strand, W.C.
 Lockwood Crosby, & Son .. 7, Stationers' Hall Ct., E.C.
 Spon E. & F. N., Ltd. .. 125, Strand, W.C.
 Whittaker & Co. .. Paternoster Square, E.C.

Pulley Blocks.

Bailey W. H., & Co., Ltd. .. Albion Works, Salford, Manchester
 Burton C. W., Griffiths & Co. .. 1, 2 & 3, Ludgate Square, Ludgate Hill, E.C.
 Gibbins R. C., & Co. .. Berkley St., Birmingham
 Tangyes Limited .. Cornwall Wks., Birm'ham

Pulleys (Cast Iron).

Bagshaw J., & Sons, Ltd. .. Batley, Yorkshire
 Bodley Brothers & Co. .. Exeter
 'Coil Clutch & Pulley Co., Ltd. .. Broad St. House, E.C.
 Croft & Perkins .. Moor Works, Thornbury, Bradford [Manchester
 Fletcher John, & Sons .. Eagle Foundry, Salford,
 Hunt R., & Co. .. Atlas Works, Earls Colne, Essex [Manchester
 Jackson P. R., & Co., Ltd. .. Salford Rolling Mills,
 Mackies Ltd. .. Berks Ironwks., Reading
 Platt Samuel .. Wednesbury
 Reader E., & Sons .. Phoenix Wks., Nott'ham
 Richards Geo., & Co., Ltd. .. Broadheath, near Manchester

Smith & Grace Screw Boss

Pulley Co., Ltd. .. Thrapston
 Taylor & Challen, Ltd. .. Birmingham
 Tittle Henry, & Son .. Alton Works, Sinethwick, Birmingham

Pulleys (Wood).

Braithwaite Isaac, & Son .. Kendal
 Dell Wm. R., & Son .. 26, Mark Lane, E.C.
 Platt Samuel .. Wednesbury

Pulleys (Wrought Iron).

Bagshaw J., & Sons, Ltd. .. Batley, Yorkshire
 Croft & Perkins .. Moor Works, Thornbury, Bradford
 Fletcher John, & Sons .. Eagle Foundry, Salford, Manchester
 Hudswell, Clarke & Co. .. Railway Foundry, Leeds
 Mackies Ltd. .. Berks Ironwks., Reading
 Oakes J. C. R. .. 63, Qn. Victoria St., E.C.
 Platt Samuel .. Wednesbury
 Smith & Grace Screw Boss Pulley Co., Ltd. .. Thrapston
 Thompson & Co. .. Victoria Works, Tamworth, Staffs.
 Tittle Henry, & Son .. Alton Works, Sinethwick, Birmingham
 Unbreakable Pulley & Mill Gearing Co., Ltd. .. West Gorton, M'chester
 Wallach Bros. .. 57, Gracechurch St., E.C.

Pulverizers.

Bradley Pulverizer Co. .. 37, Walbrook, E.C.
 Fraser & Chalmers, Ltd. .. 43, Threadneedle St., E.C.
 Hardy Patent Pick Co., Ltd. .. Sheffield
 Stamm W. (Grusonwerk) .. 25, College Hill, E.C.

Pumps (Centrifugal).

Allen W. H., Son, & Co. .. Queen's Engineering Works, Bedford
 Bailey W. H., & Co., Ltd. .. Albion Works, Salford, Manchester
 Belliss G. E., & Co., Ltd. .. Lednam St. Wks., B'ham
 Campbell & Calderwood .. Soho Engine Wks., Paisley
 Cherry John, & Sons .. Pump Works, Beverley, Yorkshire
 Clayton & Shuttleworth .. Lincoln
 Detomay, Delange et Cie. .. Hoboken, near Antwerp
 Drysdale & Co. .. Bon Accord Engine Wks., Glasgow
 Gunther W., & Sons .. Central Works, Oldham
 Gwynne & Co. .. Brooke St. Works, Holborn, E.C.
 Gwynne J. & H., Ltd. .. 64, Cannon St., E.C.
 Hathorn, Davey & Co. .. Leeds
 Heenan & Froude .. Aston, Birmingham
 Marshall, Sons & Co., Ltd. .. Gainsborough
 Maudslays, Sons & Field, Ltd. .. Lambeth, S.E.
 Owens S., & Co. .. Whitefriars St., E.C.
 Pulsometer Engineering Co., Ltd. .. Nine Elms, S.W.
 Ruston, Proctor & Co., Ltd. .. Sheaf Ironwks., Lincoln
 Scott Ernest, & Mountain, Ltd. .. Close Works, Newcastle-on-Tyne
 Simons W., & Co., Ltd. .. Renfrew, N.B. [ham
 Tangyes Limited .. Cornwall Wks., Birmingham
 Vauxhall Ironworks Co., Ltd. .. Wandsworth Rd., S.W.
 Warner R., & Co. .. 97, Queen Victoria St., E.C.
 Watson Henry, & Sons .. High Bridge Works, Newcastle-on-Tyne

Pumps (Colonial).

Bailey W. H., & Co., Ltd. .. Albion Works, Salford, Manchester
 Hayward-Tyler & Co. .. 90 & 92, Whitecross St., [E.C.
 Jessop & Appleby Bros. (Leicester & London), Ltd. .. Leicester & London
 Pulsometer Engineering Co., Ltd. .. Nine Elms, S.W. [E.C.
 Warner R., & Co. .. 97, Queen Victoria St.,

Pumps (Donkey).

Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Blake & Knowles Steam Pump Works, Ltd.	179, Qn. Victoria St., E.C.
Cameron John	Oldfield Rd. Ironworks, Salford
Clarke, Chapman & Co., Ltd.	Gateshead-upon-Tyne
Cochrane John	Barrhead, N.B.
Coles H. J.	London Crane Works, Leeds [Derby]
Hathorn, Davey & Co.	101, Leadenhall St., E.C.
Kirkaldy John, Ltd.	Culver St. Ironworks, Colchester
Mumford A. G.	63, Qn. Victoria St., E.C.
Okes J. C. R.	Whitefriars St., E.C.
Owens S., & Co.,	Springhill, Birmingham
Piggott Thos., & Co., Ltd.	
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Roger R., & Co.	Stockton-on-Tees
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Stannah J.	20, Southwark Bdge. Rd., S.E.
Tangyes Limited	Cornwall Wks., Birm'ham
Toward T., & Co.	Ouseburn, Newcastle-on-Tyne
Vauxhall Ironworks Co., Ltd.	Wandsworth Rd., S.W.
Vosper & Co., Ltd.	Portsmouth
Warner R., & Co.	97, Qn. Victoria St., E.C.
Weise & Monski	Halle (Saale), Germany
Worthington Pumping Engine Co.	153, Queen Victoria St., E.C.

Pumps and Pumping Machinery.

Abbot John, & Co., Ltd.	Park Works, Gateshead-on-Tyne
Allen W. H., Son & Co. ..	Queen's Engineering Works, Bedford
American Blower Co. ..	70, Gracechurch St., E.C.
Bailey W. H., & Co. ..	Albion Works, Salford, Manchester
Baker Blower Engineering Co.	Stanley Works, Sheffield
Belliss G. E., & Co., Ltd. ..	Ledsam St. Works, Birmingham
Berry Henry, & Co., Ltd. ..	Croydon Works, Leeds
Blake & Knowles Steam Pump Works, Ltd. ..	179, Queen Victoria St., E.C.
Braithwaite Isaac, & Son ..	Kendal
Cameron John	Oldfield Rd. Ironworks, Salford
Campbell & Calderwood ..	Soho Engine Wks., Paisley
Carruthers J. H., & Co. ..	Polmadie Ironworks, Glasgow
Chaplin Alex., & Co. ..	Govan, Glasgow
Clay Cross Co.	Clay Cross, near Chesterfield
Coalbrookdale Co., Ltd. ..	Coalbrookdale, R.S.O., Shropshire
Cochrane Jno.	Barrhead, N.B.
Coles H. J.	London Crane Works, Derby
Crow, Harvey & Co. ..	Park Grove Ironworks, Glasgow
Dempster, Moore & Co. ..	49, Robertson St., Glasgow
Drysdale & Co.	Bon Accord Engine Wks., [Glasgow]
East Ferry Road Engineering Works Co., Ltd. ..	Millwall, E.

Pumps & Pumping Machinery.—Continued.

Ellison W. T., & Co., Ltd.,	Irlams - o' - th' - Height, Manchester
Fraser & Chalmers, Ltd. ..	43, Threadneedle St., E.C.
Glenfield Co., Ltd.	Kilmarnock, N.B.
Grange Iron Co., Ltd. ..	Durham
Greenwood & Batley, Ltd.	Leeds
Gwynne & Co.	Brooke St. Works, Holborn, E.C.
Gwynne J. & H., Ltd. ..	64, Cannon St., E.C.
Hanna, Donald & Wilson ..	Paisley
Hathorn, Davey & Co. ..	Leeds [E.C.]
Hayward-Tyler & Co. ..	90 & 92, Whitecross St., Grantham
Hornsby R., & Sons, Ltd. ..	47, Victoria St., Westminster, S.W.
Hughes & Lancaster ..	Bow, E. [minster, S.W.]
Hunter & English	
Isca Foundry & Engineering Co.	Newport, Mon.
Isler C., & Co.	Artesian Wks., Bear Lane, S.E.
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Körting Brothers	53, Victoria St., Westminster
Lancaster & Tonge, Ltd. ..	Pendleton, nr. Manchester
Le Grand & Sutcliffe ..	125, Bunhill Row, E.C.
Lee, Howl & Co., Ltd. ..	Tipton
Leeds Engineering and Hydraulic Co.	Providence Works, Cross Stamford St., Leeds
Mason Regulator Co. ..	Boston, Mass., U.S.A.
Moreland Richard, & Son, Ltd.	3, Old St., E.C.
Mumford A. G.	Culver St. Ironworks, Colchester
Musgrave Bros.	Crown Point Foundry, Leeds [E.C.]
Okes J. C. R.	63, Queen Victoria St., E.C.
Owens S., & Co.	Whitefriars St., E.C.
Parsons C. A., & Co. ..	Heaton Wks, Newcastle
Pearn Frank, & Co., Ltd. ..	Manchester [on-Tyne]
Picking, Hopkins & Co. ..	Arnold Works, Bow, E.
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Rice & Co.	Neville Works, Elland Rd., Leeds
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Stannah J.	20, Southwark Bridge Rd., S.E.
Stothert & Pitt, Ltd. ..	Bath
Tangyes Limited	Cornwall Works, Birmingham [ford]
Thwaites Brothers, Ltd. ..	Vulcan Ironworks, Bradford
Vauxhall Ironworks Co., Ltd.	Wandsworth Rd., S.W.
Warner R., & Co.	97, Queen Victoria St., E.C. [ham]
Watt James, & Co.	Soho Foundry, Birmingham
Weir G. & J., Ltd.	Cathcart, Glasgow
Weise & Monski	Halle (Saale), Germany
Westinghouse Brake Co., Ltd.	York Rd., King's Cross, N
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.
Worthington Pumping Engine Co.	15, Queen Victoria St., E.C.
Yates & Thom	Blackburn, Lancashire

Punching and Shearing Machines.

Becker R., & Co.	50A, Rivington St., Cur- tain Rd., E.C.
Berry F., & Sons	Calderdale Ironworks, Sowerby Bridge
Berry Henry, & Co., Ltd..	Croydon Works, Leeds
Craig & Donald	Johistone, near Glasgow
De Bergue & Co., Ltd. . .	Strangeways Ironworks, Manchester
Fielding & Platt, Ltd. . .	Gloucester [Rd., Leeds
Greenwood & Batley, Ltd. .	Albion Works, Armley
Leeds Engineering & } Hydraulic Co.	Providence Works, Cross St., Leeds
Musgrave Bros.	Crown Point Foundry, Leeds
Pollock, Macnab & Highgate	Shettleston, Glasgow
Scott Brothers	Halifax
Smith Brothers & Co. . .	Kingston Engine Works, Glasgow

Rail Benders.

Fielding & Platt, Ltd. . .	Gloucester
Gibbins R. C., & Co. . . .	Berkley St., Birmingham
Penney Alexander, & Co. .	107, Fenchurch St., E.C.
Tangyes Limited	Cornwall Works, Bir- mingham
Wood C.	Tees Ironworks, Middles- bro'-on-Tees

Rail Lifters.

De Bergue & Co., Ltd. . .	Strangeways Ironworks, Manchester
Gibbins R. C., & Co. . . .	Berkley St., Birmingham
Rothermel Paul	105, Leadenhall St., E.C.

Rails (Steel and Iron).

Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Brown, Bailey's Steel Works, Ltd.	Sheffield
Cammell Charles, & Co., } Ltd.	Cyclops Steel & Iron Works, Sheffield
Ebbw Vale Steel, Iron & Coal Co., Ltd.	Mon., South Wales
Evans & Widowfield . . .	5, Bute Crescent, Cardiff
Fox Samuel, & Co., Ltd. .	Stocksbridge Works, near Sheffield
Penney Alexander, & Co. .	107, Fenchurch St., E.C.
Shelton Iron, Steel, & } Coal Co., Ltd.	Stoke-on-Trent, & 122, Cannon St., E.C.
Steel Co. of Scotland, Ltd.	23, Royal Exchange Square, Glasgow

Railway and Contractors' Plant.

Bagnall W. G., Ltd.	Castle Engine Works, Stafford
Birch John, & Co., Ltd. . .	10 & 11, Queen St. Place, E.C.
Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Brown, Bailey's Steel Works, Ltd.	Sheffield
Dick, Kerr & Co., Ltd. . . .	110, Cannon St., E.C.
Fowler J., & Co. (Leeds), Ltd.	Leeds
Gibbins R. C., & Co.	Berkley St., Birmingham
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hill & Smith	Brierley Hill Ironworks, near Dudley

Railway and Contractors' Plant.—Continued.

Houston J. & R.	Greenock, N.B.
Hurst, Nelson & Co., Ltd.	Glasgow Rolling Stock and Plant Works, Motherwell
Isca Foundry & Engineer- ing Co.	Newport, Mon.
McLachlan & Co.	Darlington
Oldbury Railway Carriage & Wagon Co., Ltd., The }	Oldbury Works, near Birmingham
Patent Shaft & Axletree Co. Ltd.	Wednesbury
Penney Alexander, & Co. . .	107, Fenchurch St., E.C.
Stamm W. (Grusonwerk) . .	25, College Hill, E.C.
Wood C.	Tees Ironworks, Middlesbro'-on-Tees

Railway Signals.

Isca Foundry & Engineer- ing Co.	Newport, Mon.
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Railway Sleepers.—(See Permanent Way.)**Railway Wheels.—(See Wheels, Railway.)****Railways (Light and Portable).**

Bagnall W. G., Ltd.	Castle Engine Works, Stafford
Birch John, & Co., Ltd. . .	10 & 11, Queen St. Place, E.C.
Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Decauville Aimé	7, Idol Lane, E.C.
Dick, Kerr & Co., Ltd. . . .	110, Cannon St., E.C.
Fowler J., & Co. (Leeds), Ltd.	Leeds
Kerr, Stuart & Co., Ltd. . .	20, Bucklersbury, E.C.
Koppel Arthur	Peninsular House, Monu- ment St., E.C.
McLachlan & Co.	Darlington
Penney Alexander, & Co. . .	107, Fenchurch St., E.C.
Wood C.	Tees Ironworks, Middlesbro'-on-Tees

Reducing Valves.

Auld David, & Sons	Whitevale Foundry, Glasgow
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Kirkaldy John, Ltd.	101, Leadenhall St., E.C.
Mason Regulator Co. . . .	Boston, Mass., U.S.A.
Royle J. J.	Great Bridgewater St., Manchester
Schäffer & Budenberg . . .	Whitworth St., London Rd., Manchester
Watson Henry, & Sons . . .	High Bridge Works, Newcastle-on-Tyne

Refrigerating Machinery.

Allen W. H., Son, & Co. . .	Queen's Engineering Works, Bedford
Allis Edward P. Co.	Milwaukee, Wis., U.S.A.
Douglas & Grant	Dunnikier Foundry, Kirk- caldy, N.B. (E.C.)
Hall J. & E., Ltd.	23, St. Swithin's Lane,
Haslam Foundry & Engi- neering Co., Ltd.	Union Foundry, Derby
Linde British Refrigeration Co., Ltd.	35, Queen Victoria St., E.C.

Refrigerating Machinery.—*Continued.*

Pontifex & Wood, Ltd.	Union Foundry, Derby
Pulsometer Engineering Co., Ltd.	Nine Elms, S.W.
Standard Ammonia Co., Ltd.	Old Ford, E.
Sterne L., & Co., Ltd.	Crown Ironwks., Glasgow

Rice-Dressing Machinery.

Campbell & Calderwood	Soho Engine Wks., Paisley
Dell Wm. R., & Son	26, Mark Lane, E.C.
Douglas & Grant	Kirkcaldy, N.B.
Hunter & English	Bow, London, E.
Waygood R., & Co., Ltd.	Falmouth Rd., S.E.
Whitmore & Binyon	Wickham Market; & 64, Mark Lane, E.C.

Rifles.—(See *Small Arms.*)**Rivets.**—(See *Bolts, Rivets, &c.*)**Riveting Machines.**

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Ltd.
Bement, Miles, & Co.	Bridgeton, Glasgow
Berry Henry, & Co., Ltd.	Philadelphia, Pa., U.S.A.
Crow, Harvey & Co.	Croydon Works, Leeds
De Bergue & Co., Ltd.	Park Grove Ironworks, Glasgow
Drysdale & Co.	Manchester (Glasgow)
Fielding & Platt, Ltd.	Bon Accord Engine Wks. Gloucester
Musgrave Bros.	Crown Pnt. Fndry., Leeds
Rice & Co.	Neville Works, Elland Rd., Leeds
Smith Brothers & Co.	Kingston Engine Works, Glasgow
Smith Hugh, & Co.	Glasgow (Glasgow)

Road Rollers (Steam).

Marshall, Sons, & Co., Ltd.	Gainsborough
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Rock Drills.

Coles H. J.	London Crane Works, Derby
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester
Jessop & Appleby Bros.	Leicester & London
Schraun Richard & Co.	Cannon St. House, E.C.

Rolling Mills.—(See *Iron and Steel Works, Plant for.*)**Rolls (Chilled and Grain).**

Jones George, Ltd.	Lionel St. Foundry, Birmingham
Stamm W. (Grusonwerk)	25, College Hill, E.C.

Roofs (Iron, Steel and Zinc).

Abbot John, & Co., Ltd.	Park Works, Gateshead
Arrol's Bridge & Roof Co., Ltd.	[on-Tyne]
Ashbury Railway Carriage & Iron Co., Ltd.	Germiston Wks., Glasgow
Blackwall Galvanized Iron Co., Ltd.	Openshaw, Manchester
Campbell & Calderwood	Corbet Court, E.C.
Craig A. F., & Co., Ltd.	Soho Engine Wks., Paisley
De Bergue & Co., Ltd.	Paisley, N.B. Manchester

Roofs (Iron, Steel and Zinc).—*Continued.*

Dixon Isaac, & Co.	Spekeland Rd., Liverpool
Edwards & Co.	Millwall, E.
Findlay Alexander, & Co.	Motherwell, N.B.
Handyside Andrew, & Co., Ltd.	Britannia Ironwks., Derby
Hanna, Donald & Wilson	Paisley, N.B.
Heenan & Froude	Newton Heath Ironworks, near Manchester
Isca Foundry & Engineering Co.	Newport, Mon.
Morton Francis, & Co., Ltd.	Hamilton Iron Works, Garston
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Smith A. & W., & Co., Ltd.	Eglinton Engine Works, Glasgow
Walker Brothers	Pagefield Ironwks., Wigan

Rope Tramways.

Ropeways Syndicate, Ltd.	150, Leadenhall St., E.C.
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Ropes (Driving).

Ironmongers' Rope Works, Ltd.	Brickfield St., Wolverhampton
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Ropes (Wire).—(See *Wire & Wire Rope Makers.*)**Rust Preventive.**

Palfreyman W. H., & Co.	17, Goree-Piazas, Liverpool
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Safety Apparatus.

Reid Wm., & Co.	112, Fenchurch St., E.C.
Wallach Bros.	57, Gracechurch St., E.C.

Sanitary Appliances.

Doulton & Co., Ltd.	Lambeth, S.E.
Hughes & Lancaster	47, Victoria St., Westminster, S.W.

Saw Guards.

Glover M., & Co.	Leeds
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Saw Makers.

Beardshaw J., & Son, Ltd.	Baltic Steel Works, Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Spear & Jackson	Ætna Works, Sheffield

Screens.

Barns W., & Son	Perforating Works, Chalton St., N.W.
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Screw Propellers and Propeller Blades.

Brown John, & Co., Ltd.	Sheffield
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Jessop Wm., & Sons, Ltd.	Sheffield
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne

Screwing Machines.

Bignall & Keeler Mfg. Co.	Edwardsville, Madison Co., Ill., U.S.A.
Chatwin Thos.	Great Tindal St., Birmingham

Screwing Machines.—*Continued.*

Curtis & Curtis	.. 10, Garden St., Bridgeport, Conn., U.S.A.
Daniell S. A., Ltd.	.. Edward St. Parade, Birmingham
Heap Joshua, & Co., Ltd.	.. Ashton-under-Lyne
Kendall & Gent	.. Salford, Manchester
Niles Tool Works Co.	.. Hamilton, Ohio, U.S.A.
Shanks Thomas, & Co.	.. Union Ironworks, Johnstone

Search Lights.

British Schuckert Electric Co., Ltd.	} Clun House, Surrey St., Strand, W.C.
British Thomson-Houston Co., Ltd.	
Clarke, Chapman & Co., Ltd.	.. 83, Cannon St., E.C.
Johnson & Phillips	.. Gateshead-upon-Tyne
	.. Victoria Works, Old Charlton, Kent

Sewage Works (Plant for).

Smith John, & Co.	.. Grove Ironworks, Carshalton, Surrey
Young H., & Co., Ltd.	.. Eccleston Ironworks, Pimlico, and Hayle Foundry Wharf, Nine Elms, S.W.

Shafting and Shaft Fittings.—(See also *Plumber Blocks.*)

Bagshaw J., & Sons, Ltd.	.. Batley, near Leeds
Bessemer Hy., & Co., Ltd.	.. Sheffield
Brown, Bailey's Steel Works, Ltd.	.. Sheffield
Brown John, & Co., Ltd.	.. Sheffield [Derby
Coles H. J., & Co., Ltd.	.. London Crane Works, Paisley, N.B.
Craig A. F., & Co., Ltd.	.. Moor Works, Thornbury, Bradford
Croft & Perkins	.. Bradford

Hadfield's Steel Foundry Co., Ltd.	.. Hecla Works, Sheffield
Hunt R., & Co.	.. Atlas Works, Earls Colne, Essex

Jackson P. R., & Co., Ltd.	.. Salford Rolling Mills, Sheffield [Manchester
Jessop W., & Sons, Ltd.	.. Leeds
Kirkstall Forge Co.	.. Leeds
Mackies Ltd.	.. Berks Ironwks., Reading
Platt Samuel	.. Wednesbury
Poole R., & Son Co.	.. Baltimore, Md., U.S.A.
Reader E., & Sons	.. Phoenix Wks., Nottingham
Richards Geo., & Co., Ltd.	.. Broadheath, near Manchester
Richardson Thos., & Sons, Ltd.	.. Hartlepool
Smith & Grace Screw Boss Pulley Co., Ltd.	.. Thrapston
Spencer John, & Sons, Ltd.	.. Newburn Steel Works, Newcastle-on-Tyne

Taylor & Challen, Ltd.	.. Birmingham
Tittley Henry, & Son	.. Alton Works, Smethwick, Birmingham
Trier Bros.	.. 1, Gt. George St., Westminster, S.W.

Unbreakable Pulley & Mill Gearing Co., Ltd.	.. West Gorton, Manchester
Wailles George, & Co.	.. 258, Euston Rd., N.W.
Woodhouse & Rixson	.. Sheffield

Sheerlegs.

Day, Summers & Co.	.. Northam Ironworks, Southampton
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Sheet Metals

Wilkinson J., & Son	.. Saltley, Birmingham
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Shipbuilders.

Alley & Macellan	.. Glasgow
Bow, McLachlan & Co.	.. Thistle Works, Paisley
Day, Summers & Co.	.. Northam Ironworks, Southampton
Dunsmuir & Jackson	.. Govan Engine Works, Glasgow
Edwards & Co.	.. Millwall, E.
Fleming & Ferguson, Ltd.	.. Paisley, N.B.
Forrest & Son, Ltd.	.. 101, Leadenhall St., E.C.
Hayes Edward	.. Stony Stratford, Wotton
Kincaid John G., & Co.	.. Greenock, Scotland
Lobnitz & Co., Ltd.	.. Renfrew, Scotland
Lytham Shipbuilding & Engineering Co.	.. Lytham, Lancashire
McKie & Baxter	.. Copland Works, Govan, Glasgow
Roes & Duncan	.. Glasgow
Royal Dutch Forge Co.	.. Leiden, Holland
Schichau F.	.. Elbing-Danzig, Prussia
Simons W. & Co., Ltd.	.. Renfrew, N.B.
Smit L., & Zoon	.. Kinderdijk, Holland
Smit P., Jr.	.. Rotterdam, Holland
Thornycroft J. I., & Co.	.. Chiswick
White J. Samuel, & Co., Ltd.	.. Medina Dock, Cowes
Yarrow & Co., Ltd.	.. Isle of Dogs, E.

Shovels and Spades.—(See *Picks, &c.*)**Sleepers (Railway).**

Ebbw Vale Steel Iron & Coal Co., Ltd.	.. Mon., South Wales
Penny Alexander, & Co.	.. 107, Fenchurch St., E.C.

Slotting & Shaping Machines.—(See *Machine Tools.*)**Small Arms.**

Henry Rifled Barrel Engineering and Small Arms Co., Ltd.	.. Eagle Wharf Rd., N.
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Smelting Plant.

Fraser & Chalmers, Ltd.	.. 43, Threadneedle St., E.C.
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Speed Indicators.

Berend O., & Co., Ltd.	.. Dunedin House, Basinghall Avenue, E.C.
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Smiths' Fires.

Linley & Bingham	.. Clough Works, Sheffield
Thwaites Brothers, Ltd.	.. Vulcan Ironwks., Bradford

Springs.

Brown, Bailey's Steel Works, Ltd.	.. Sheffield
Brown John, & Co., Ltd.	.. Glasgow
Brown W. S., Jun., & Co.	.. 67, Washington St., Stocksbridge Works, near Sheffield
Fox Samuel, & Co., Ltd.	.. Sheffield
Osborn Samuel, & Co.	.. Sheffield
Spencer John, & Sons, Ltd.	.. Newburn Steel Works, Newcastle-on-Tyne

Springs.—Continued.

Sterne L., & Co., Ltd. .. Crown Ironwks., Glasgow
 Turton Thos., & Sons, Ltd. Sheaf Works, Sheffield

Sprinklers.

Dowson, Taylor & Co., Ltd. 14, Victoria St., Westminster, S.W.

Stair Treads.

Safety Tread Syndicate, Ltd. 15, Barbican, E.C.

Stampings (Iron and Steel).

Armstrong, Stevens & Son Whittall St., Birmingham
 Henry Rifled Barrel Engineering and Small Arms Co., Ltd. Eagle Wharf Rd., N.
 Smith Thos., & Sons, of Saltley, Ltd. Saltley Mill, Birmingham

Steam Hammers.

Baker Blower Engineering Co. Stanley Works, Sheffield
 Bement, Miles, & Co. .. Philadelphia, Pa., U.S.A.
 Cochrane John Barrhead, N.B.
 Crow, Harvey & Co. .. Park Grove Ironworks, Glasgow

Davis & Primrose Etna Ironworks, Bangor Rd., Leith, N.B.

Dempster, Moore & Co. .. 49, Robertson St., Glasgow
 Detombay, Delange et Cie. Hoboken, near Antwerp

Keighley Engineering Co. Halifax
 Massey B. & S. Openshaw, Manchester

Ross R. G., & Son Glasgow
 Scott Brothers Halifax [Glasgow

Smith Brothers & Co. .. Kingston Engine Works
 Thwaites Brothers, Ltd. .. Vulcan Ironwks., Bradford
 Walker Brothers Pagefield Ironwks., Wigan

Steam Separators.

Empire Engineering Co. .. Failsworth, Manchester
 Goubert Mfg. Co. New York, U.S.A.
 Haigh W. B., & Co., Ltd. .. Globe Ironworks, Oldham
 Holden & Brooke, Ltd. .. Sirius Wks., West Gorton, Manchester

Steam Traps.

Armstrong J., & Co., Ltd. 116, Queen Victoria St., E.C.

Edmeston A., & Sons .. Cannon St. Wks., Salford, Manchester

Geipel & Lange 68, Victoria St., S.W.
 Haigh W. B., & Co., Ltd. .. Globe Ironwks., Oldham

Holden & Brooke, Ltd. .. Sirius Wks., West Gorton, Manchester

Lancaster & Tonge, Ltd. .. Pendleton, Manchester
 Picking, Hopkins & Co. .. Arnold Works, Bow, E.

Boyle J. J. Great Bridgewater St., Manchester

Schäffer & Budenberg .. Whitworth St., London Rd., Manchester

Steam Turbines.

Parsons C. A., & Co. .. Heaton Wks., Newcastle-on-Tyne

Parsons Marine Steam Turbine Co., Ltd. .. Turbinia Works, Wallsend-on-Tyne

Steel and Iron Works (Plant for).—(See Iron and Steel Works.)**Steel Makers.**

Allen Edgar, & Co., Ltd. .. Imperial Steel Works, Sheffield [Sheffield
 Askham Bros. & Wilson, Ltd. Beadmore William, & Co. Parkfield Ironwks., Glasgow

Beardshaw J., & Son, Ltd. Baltic Steel Works, Sheffield
 Bessemer Henry, & Co., Ltd. Sheffield [field

Brown, Bayley's Steel Wks., Ltd. Sheffield

Brown John, & Co., Ltd. .. Sheffield

Brymbo Steel Co., Ltd. .. Wrexham

Colville David, & Sons, Ltd. Motherwell, nr. Glasgow

Darlington Forge Co., Ltd. Darlington

Dennis W. F., & Co. .. 23, Billiter St., E.C.

Ebbw Vale Steel, Iron, and Coal Co., Ltd. Mon., South Wales

Fairley James, & Sons .. Shadwell St., Birmingham

Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield

Fox Samuel, & Co., Ltd. .. Stocksbridge Works, near Sheffield

Hadfield's Steel Foundry Co., Ltd. Hecla Works, Sheffield

Howell & Co., Ltd. .. Brook Steel Wks., Sheffield

Jackson P. R., & Co., Ltd. Salford Rolling Mills, Sheffield [Manchester

Jessop W., & Sons, Ltd. .. Motherwell, N.B.

Lanarkshire Steel Co., Ltd. Leeds

Leeds Forge Co., Ltd. .. Leeds

Leeds Steel Works, Ltd. .. Sheffield

Osborn S., & Co. .. Coats Iron & Steel Works, Coatbridge, N.B.

Paterson, Downs & Jardine Rogerson John, & Co., Ltd. Wolsingham, R.S.O., Co. Durham

Spencer John, & Sons, Ltd. Newburn Steel Works, Newcastle-on-Tyne

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow

Stewart A. & J., & Menzies, Ltd. .. 41, Oswald St., Glasgow

Turton T., & Sons, Ltd. .. Sheaf Works, Sheffield

Vickers, Sons & Maxim, Ltd. Sheffield

Weardale Iron & Coal Co., Ltd. .. George Yard, Up. Thames St., E.C.

Woodhouse & Rixson .. Sheffield

Steering Gear.

Campbell & Calderwood .. Soho Engine Wks., Paisley

Napier Brothers, Ltd. .. 100, Hyde Pk. St., Glasgow

Piggott Thos., & Co., Ltd. Springhill, Birmingham

Roger R., & Co. .. Stockton-on-Tees

Rogerson John, & Co., Ltd. Wolsingham, R.S.O., Co. Durham

Stocks and Dies.

Daniell S. A., Ltd. .. Edward St. Parade, Birmingham

Stokers (Mechanical).

Haigh W. B., & Co., Ltd. .. Globe Iron Wks., Oldham

Proctor J. Burnley, Lancashire

Ransomes & Rapier, Ltd. .. 32, Victoria St., S.W.

Sinclair George Albion Boiler Works, Leith, N.B.

Stonebreakers.

Askham Bros. & Wilson, Ltd. Sheffield

Baker Blower Engineering Co. Stanley Works, Sheffield

Baxter W. H., Ltd. .. Leeds

Fraser & Chalmers, Ltd. .. 43, Threadneedle St., E.C.

Hadfield's Steel Foundry Co., Ltd. Hecla Works, Sheffield

Stonebreakers.—Continued.

Jessop W., & Sons, Ltd.	..	Sheffield
Johnson Wm., & Sons	..	Castleton Foundry, Arm- ley, Leeds
Marsden H. R.	..	Soho Foundry, Leeds
Mason Bros.	..	Brandon St., Leicester
Robey & Co., Ltd.	..	Lincoln
Stamm W. (Grusonwerk)	..	25, College Hill, E.C.

Sugar Machinery.

Campbell & Calderwood	..	Soho Engine Wks., Paisley
Craig A. F., & Co., Ltd.	..	Paisley, N.B.
Crow, Harvey & Co.	..	Park Grove Ironworks, Glasgow
Davey Arthur J.	..	122, Cannon St., E.C.
Davis & Primrose	..	Etna Ironworks, Bangor Road, Leith
Houston J. & R.	..	Greenock, N.B.
McOnie, Harvey & Co., Ltd.	..	Scotland St. Engine Wks., Glasgow
Manlove, Alliott & Co., Ltd.	..	Nottingham
Mirrlees, Watson & Yaryan Co., Ltd.	..	Scotland St., Glasgow
Piggott Thos., & Co., Ltd.	..	Springhill, Birmingham
Robey & Co., Ltd.	..	Lincoln
Ruston, Proctor & Co., Ltd.	..	Sheaf Ironworks, Lincoln
Smith A. & W., & Co., Ltd.	..	Eglinton Engine Works, Glasgow
Stamm W. (Grusonwerk)	..	25, College Hill, E.C.

Sulphate of Ammonia Plants.

Simon Henry, Ltd.	..	20, Mount St., Manchester
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Superheaters.

Fraser & Chalmers, Ltd.	..	43, Threadneedle St., E.C.
Sinclair George	..	Albion Boiler Works, Leith, N.B.

Surface Plates.

Oakes J. C. R.	..	64, Qn. Victoria St., E.C.
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Switches and Crossings.

Iaca Foundry Co.	..	Newport, Mon.
Penney Alexander, & Co.	..	107, Fenchurch St., E.C.

Syrens.

Smith Sydney, & Sons	..	Basford Brass Wks., Not- tingham
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Tachometers.

Berend O., & Co., Ltd.	..	Dunedin House, Basing- hall Avenue, E.C.
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Tanks.

Bellamy John	..	Millwall, E.
Blackwall Galvanized Iron Co., Ltd.	..	Corbet Court, Grace- church St., E.C.
Clay Cross Co.	..	Clay Cross, nr. Chester- field
Coltman H., & Sons	..	Midland Ironworks, Loughborough
Craig A. F., & Co., Ltd.	..	Paisley, N.B.
Deighton's Patent Flue & Tube Co., Ltd.	..	Vulcan Works, Pepper Rd., Leeds
Findlay Alexander, & Co.	..	Motherwell, N.B.
Hanna, Donald & Wilson	..	Paisley, N.B.
Morton Francis, & Co., Ltd.	..	Hamilton Ironworks, Garston
Piggott Thos., & Co., Ltd.	..	Springhill, Birmingham
Yates & Thom	..	Blackburn, Lancashire

Tanners and Curriers.

Tullis John, & Son	..	St. Ann's Leather Works, Glasgow
Webb & Son	..	Stowmarket

Tea-Dressing Machinery.

Marshall, Sons & Co., Ltd.	..	Gainsborough
Ransomes, Sims & Jef- feries, Ltd.	..	Ipswich

Telegraph Instruments.

India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	..	Silvertown, Essex [E.C.]
Johnson & Phillips	..	44, Union Ct., O. Broad St., 12, Qn. Ann's Gate, S.W.
Siemens Bros. & Co., Ltd.	..	Telegraph Manufacturing Co., Ltd.
Telegraph Manufacturing Co., Ltd.	..	Helsby, near Warrington

Telegraph Wire and Cables.

India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	..	Silvertown, Essex [E.C.]
Johnson & Phillips	..	14, Union Ct., O. Broad St., 12, Qn. Ann's Gate, S.W.
Siemens Bros. & Co., Ltd.	..	Telegraph Manufacturing Co., Ltd.
Telegraph Manufacturing Co., Ltd.	..	Helsby, near Warrington

Telegraphs (Engine and Steering).

Chadburn's (Ship) Tele- graph Co., Ltd.	..	11, Waterloo Rd., L'pool.
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Telephones.

Telegraph Manufacturing Co., Ltd.	..	Helsby, near Warrington
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Testing Machines.

Avery W. & T., Ltd.	..	Soho Foundry, Birming- ham [Manchester]
Bailey W. H., & Co., Ltd.	..	Albion Works, Salford
Denison Saml., & Sons	..	Hunslet Carr, Leeds, S.
Greenwood & Batley, Ltd.	..	Albion Works, Leeds
Leeds Engineering and Hydraulic Co.	..	Providence Works, Cross Stamford St., Leeds
Smith Hugh, & Co.	..	Glasgow
Tangyes Limited	..	Cornwall Wks., Birm'ham

Timber Merchants.

Kennedy James, & Co.	..	69, Buchanan St., Glas- gow
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Time-Checking Machines.

Bailey W. H., & Co., Ltd.	..	Albion Works, Salford, Manchester
Llewellyn Machine Co.	..	Bristol

Tobacco Machinery.

Coates Victor, & Co., Ltd.	..	Lagan Foundry, Belfast
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Tool Handles.

British Viscoid Co., Ltd.	..	35, Seething Lane, E.C.
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Tools (Hand and Small).

Buck & Hickman	..	2 & 4, Whitechapel Rd., E. [ham]
Chatwin Thos.	..	Gt. Tindal St., Birming-

Tools (Hand and Small).—Continued.

Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., Finsbury, E.C.
Daniell S. A., Ltd.	Edward St. Parade, Birmingham
Dempster, Moore & Co.	49, Robertson St., Glasgow
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Nettelfolds Limited	Birmingham
Rothermel Paul	105, Leadenhall St., E.C.
Selig, Sonnenthal & Co.	85, Qn. Victoria St., E.C.
Smith Thos., & Sons, of Saltley, Ltd.	Saltley Mill, Birmingham
Taite, Howard & Co., Ltd.	63, Queen Victoria St., E.C.
Taylor C., Ltd.	Bartholomew St., Birmingham
Wells A. C., & Co.	102, Midland Rd., St. Pancras, N.W.
Widdowson J. H.	Ordsal Lane, Manchester

Torpedo Boats.

Edwards & Co.	Millwall, E.
Hanna, Donald & Wilson	Paisley
Schichau F.	Elbing-Danzig, Prussia
Smit L., & Zoon	Kinderdijk, Holland
Thornycroft J. I., & Co.	Chiswick, W.
Yarrow & Co., Ltd.	Isle of Dogs, E.

Torpedo Machinery.

Belliss G. E., & Co., Ltd.	Ledsam St. Wks., Birm'm.
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Torpedoes.

Greenwood & Batley, Ltd.	Albion Works, Armley Rd., Leeds
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Tramways and Tramway Plant.

Askham Bros. & Wilson, Ltd.	Sheffield
Birch John, & Co., Ltd.	10 & 11, Qn. St. Place, E.C.
Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Dick, Kerr & Co., Ltd.	110, Cannon St., E.C.
Hadfield's Steel Foundry Co., Ltd.	Hecia Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hornsby R., & Sons, Ltd.	Grantham
Hurst, Nelson & Co., Ltd.	Glasgow Rolling Stock and Plant Works, Motherwell

Isca Foundry & Engineering Co.	Newport, Mon.
Kerr, Stuart & Co., Ltd.	20, Bucklersbury, E.C.
Penney Alexander, & Co.	107, Fenchurch St., E.C.

Transfers.

Bölian F.	30, Snowhill, E.C.
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Translators.

Hearson R. O., Ltd.	15 & 17, Creechurch Lane, E.C.
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Tube-Drawing Plant.

Fielding & Platt, Ltd.	Gloucester
Platt Samuel	Wednesbury

Tube-Making Machinery.

Fielding & Platt, Ltd.	Gloucester
Jones George, Ltd.	Lionel St. Foundry, Birmingham
Platt Samuel	Wednesbury

Tube Scrapers.

Wallach Bros.	17, Gracechurch St., E.C.
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Tube Wells.

Isler O., & Co.	Artesian Works, Bear Lane, S.E.
Le Grand & Sutcliff	125, Bunhill Row, E.C.
Tangyes Limited	Cornwall Wks., Birm'ham

Tubes (Brass and Copper).

Birmingham Battery & Metal Co., Ltd.	Birmingham
Broughton Copper Co., Ltd.	Manchester
Grice, Grice & Son	Sheepcote St., Birmingham
Royle J. J.	82, Bridgewater St., Manchester
Wilkinson J., & Sons	Saltley, Birmingham

Tubes (Iron and Steel).

Aird Jos.	Tipton, Staffordshire
British Tube Co., Ltd.	Birmingham
Brown John, & Co., Ltd.	Sheffield
Chisholm & Law	Saracen Tube Works, Glasgow
Galloways Limited	Manchester
Hildick & Hildick	Tube Works, Walsall
Howell & Co., Ltd.	Brook Steel Works, Sheffield
Lewis E., & Sons	Wolverhampton
Lloyd & Lloyd, Ltd.	Albion Tube Works, Birmingham
Marshall J., & Sons	Glasgow
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Russell Jas., & Sons, Ltd.	Crown Tube Works, Wadnesbury
Russell John, & Co., Ltd.	Alma Tube Wks., Walsall
Stewart A. & J., & Menzies, Ltd.	41, Oswald St., Glasgow
Tubes, Ltd.	Birmingham
Weldless Steel Tube Co.	Icknield Port Rd., Birmingham

Tubing (Flexible Metallic).

United Flexible Metallic	112, Queen Victoria St., E.C.
Tubing Co., Ltd.	

Tug Boats.

Campbell & Calderwood	Soho Engine Wks., Paisley
Edwards & Co.	Millwall, E.
Hayes Edward	Stony Stratford, Wolver-
Lytham Shipbuilding & Engineering Co.	Lytham, Lancashire
McKie & Baxter	Copland Works, Govan, Glasgow
Ross & Duncan	Glasgow
Royal Dutch Forge Co.	Leiden, Holland
Simpson, Strickland & Co., Ltd.	Dartmouth, S. Devon
Smit L., & Zoon	Kinderdijk, Holland
Smit P., Jr.	Rotterdam, Holland

Turbines.

Allen W. H., Son & Co.	Queen's Engineering Works, Bedford
Dell Wm. R., & Son	28, Mark Lane, E.C.
Donkin B., & Co., Ltd.	Southwark Park Rd., S.E.
Fraser & Chalmers, Ltd.	43, Threadneedle St., E.C.

Turbines.—Continued.

Günther W., & Sons	Central Works, Oldham
Gwynne & Co.	Brooke St. Works, Holborn, E.C.
Hanna, Donald, & Wilson	Paisley, N.B.
Poole R., & Son Co.	Baltimore, Md., U.S.A.
Schram Richard, & Co.	Cannon St. House, E.C.
Simon Henry, Ltd.	20, Mount St., Manchester
Stothert & Pitt, Ltd.	Bath [E.C.]
Warner R., & Co.	97, Queen Victoria St., Wickham Market; & 64, Mark Lane, E.C.
Whitmore & Binyon	

Turnstiles.

Isler C., & Co.	Artesian Works, Bear Lane, S.E.
Le Grand & Sutcliff	100, Bunhill Row, E.C.

Turntables.

Cowans, Sheldon & Co., Ltd.	Carlisle
Iscia Foundry Co.	Newport, Mon.
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Pennay Alexander, & Co.	107, Fenchurch St., E.C.

Typewriters.

Yost Typewriter Co., Ltd.	50, Holborn Viaduct, E.C.
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Tyres (Railway).

Bessemer Henry, & Co., Ltd.	Sheffield
Brown, Bayley's Steel Works, Ltd.	Sheffield
Brown John, & Co., Ltd.	Sheffield
Gammell Chas., & Co., Ltd.	Cyclops Steel & Iron Works, Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Fox Samuel, & Co., Ltd.	Stocksbridge Works, near Sheffield [Sheffield]
Vickers, Sons & Maxim, Ltd.	

Vacuum Pans and Pumps.

Houston J. & R.	Greenock, N.B.
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Valuers (Engineers).

Fuller, Horsey, Sons & Cassell	11, Billiter Square, E.C.
Hirk W., Price & Goulty	52, Queen Victoria St., E.C.; and Albert Sq., Manchester
Norman John	131A, St. Vincent St., Glasgow

Valves (Gas, Steam, Water, &c.).

Abbot John, & Co., Ltd.	Park Works, Gateshead- on-Tyne
Alley & MacLellan	Sentinel Works, Glasgow
Asbestos Co., Ltd. (Bell's)	594, Southwark St., S.E.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Crosby Steam Gage & Valve Co.	75, Queen Victoria St., E.C.
Fairbanks Company	16, Gt. Eastern St., E.C.
Fielding & Platt, Ltd.	Gloucester
Glenfield Co., Ltd.	Kilmarnock, N.B.
Green & Boulding	105, Bunhill Row, E.C.
Hanna, Donald & Wilson	Paisley, N.B.
Holgate Chas. H.	School Close Wks., Leeds
Horsfield Ralph, & Co.	Chapel-en-le-Frith, Derbyshire
Hulburd Engineering Co.	150, Leadenhall St., E.C.

Valves (Gas, Steam, Water, &c.).—Continued.

Hunter & English	Bow, E.
Jenkins Bros.	71, John St., New York, U.S.A.
Lunkenheimer Co.	Cincinnati, Ohio, U.S.A.
Metallic Valve Co.	Tower Buildings, Water St., Liverpool
Owens S., & Co.	Whitefriars St., E.C.
Palatine Engineering Co., Ltd.	10, Blackstock St., Liver- pool
Piggott Thos., & Co., Ltd.	Birmingham
Reid Wm., & Co.	112, Fenchurch St., E.C.
Rhodes B., & Son	Bow Brass Works, Lon- don, E.
Royle J. J.	Gt. Bridgewater St., Man- chester
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle- on-Tyne
Scott Geo., & Son	44, Christian St., E.
Smith Brothers & Co.	Hyson Green Works, Nottingham
Storey I., & Sons	Knott Mill, Manchester
Wailes George, & Co.	258, Euston Rd., N.W.
Walker Bros.	Pagefield Ironworks, Wigan [E.C.]
Warner R., & Co.	97, Queen Victoria St., Widmore Works
Woodite Works	Mitcham Common, Surrey

Valves (Relief).

Lunkenheimer Co.	Cincinnati, Ohio, U.S.A.
Normandy's Patent Marine Aerated Fresh Water Co., Ltd.	Victoria Dock Rd., E.

Valves (Safety).

Ashton Valve Co.	1 & 2, Rangoon St., E.C.
Bailey W. H., & Co., Ltd.	Albion Works, Salford, Manchester
Crosby Steam Gage & Valve Co.	75, Queen Victoria St., E.C.
Empire Engineering Co.	Failsworth, Manchester
Lunkenheimer Co.	Cincinnati, Ohio, U.S.A.
Royle J. J.	Gt. Bridgewater St., Man- chester
Schäffer & Budenberg	Whitworth St., London Rd., Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle- on-Tyne
Turnbull Alex., & Co.	Bishopbriggs, Glasgow

Ventilators.

Abbot John, & Co., Ltd.	Park Works, Gateshead- on-Tyne
Allen W. H., Son, & Co.	Queen's Engineering Works, Bedford
American Blower Co.	70, Gracechurch St., E.C.
Blackman Ventilating Co., Ltd.	63, Fore St., E.C.
Boyle R., & Son, Ltd.	64, Holborn Viaduct, E.C.
Heenan & Froude	Aston Lane, Birmingham
Laycock W. S.	Victoria St. Wks., Sheffield

Vices.

Linley & Bingham	Clough Works, Sheffield
Neat Chas., & Co.	112, Queen Victoria St., E.C.
Taylor C.	Bartholomew St., B'ham.

Voltmeters.

Nalder Bros. & Thompson 34, Queen St., E.C.

Vulcanite and Vulcanized Fibre.

Moseley David, & Sons .. Ardwick, Manchester
Winter F. .. 8, Redcross St., E.C.

Wagon (Railway) Builders.

Ashbury Railway Carriage
and Iron Co., Ltd. .. Openshaw, Manchester
Bagnall W. G., Ltd. .. Castle Engine Works,
Stafford
Hurst, Nelson & Co., Ltd. Glasgow Rolling Stock
and Plant Works,
Motherwell
Kerr, Stuart & Co., Ltd. .. 20, Bucklesbury, E.C.
MacLellan P. & W., Ltd. .. Clutha Works, Glasgow
Metropolitan Railway Car-
riage & Wagon Co., Ltd. Salford Wks., Birmingham
Midland Railway Carriage
and Wagon Co., Ltd. .. Abbey Wks., Shrewsbury
Oldbury Railway Carriage
and Wagon Co., Ltd. .. Oldbury Works, near
Birmingham
Penney Alexander, & Co. 107, Fenchurch St., E.C.
Pickering R. Y., & Co., Ltd. Wishaw, near Glasgow

Wagons (Tip).

Bagnall W. G., Ltd. .. Castle Engine Works,
Stafford
Dick, Kerr & Co., Ltd. .. 110, Cannon St., E.C.
Hadfield's Steel Foundry
Co., Ltd. .. Hecla Works, Sheffield
Johnson Wm., & Sons .. Castleton Foundry, Arm-
ley, Leeds
Penney Alexander, & Co. 107, Fenchurch St., E.C.

Washers.

Jardine J. .. Nottingham

Watches.

Smith S., & Sons, Ltd. .. 9, Strand, W.C.

Water Cooling Plant.

Klein Engineering Co., Ltd. 9, South Parade, Man-
chester

Water Meters.

Glenfield Co., Ltd. .. Kilmarnock, N.B.
Kennedy's Patent Water
Meter Co., Ltd. .. Kilmarnock, Scotland
Universal Water Meter Co.,
Ltd. .. 36-38, Arlington St., N.
Worthington Pumping } 153, Queen Victoria St.
Engine Co. .. E.C.

Water-Purifying Apparatus.

Boby William .. 16, Union Court, Old
Broad St., E.C.
Bristowe Hugh L., & Co., } Albany Buildings, 47,
Ltd. .. Victoria St., S.W.
Green & Boulding .. 105, Bunhill Row, E.C.
Lawrence Patent Water } Norland Yard, Uxbridge
Softener Sterilizer Co. .. Rd. Station, W.
Litholine Co. .. 31, Whitworth St., Man-
chester
Mather & Platt, Ltd. Salford Ironworks, Man-
Pulsometer Engineering } chester
Co., Ltd. .. Nine Elms, S.W.
Water Softening & Purify- }
ing United Patents, Ltd. } 30 & 31, St. Swinith's
Lane, E.C.

Water Wheels.

Bodley Brothers & Co. .. Exeter
Fraser & Chalmers, Ltd. .. 43, Threadneedle
Stothert & Pitt, Ltd. .. Bath
Turner E. R. & F., Ltd. (132) Ipswich
Warner R., & Co. .. 97, Queen Victoria St.,
E.C.
Whitmore & Binyon .. Wickham Market; & 64,
Mark Lane, E.C.

Weighing Machines.

Avery W. & T., Ltd. .. Soho Foundry, Birming-
ham
Denison Saml., & Son .. Hunslet Carr, Leeds, S.
East Ferry Road Engineer-
ing Works Co., Ltd. .. Millwall, E.
Horsfield Ralph, & Co. .. Chapel-en-le-Frith,
Derbyshire
Pooley Henry, & Son .. Albion Foundry, Liver-
pool
Smith A. & W., & Co., Ltd. Eglinton Engine Works,
Glasgow
Watt James, & Co. .. Soho Foundry, Birm'ham

Well Engineers.

Ialer C., & Co. .. Artesian Works, Bear
Lane, S.E.
Le Grand & Sutcliffe .. 125, Bunhill Row, E.C.

Wheel-Cutting Machinery.

Barlow H. B., & Co. .. Cornbrook Works, Man-
chester.
Hutchinson, Hollingworth, } Dobcross Loom Works,
& Co., Ltd. .. Dobcross
Wales George, & Co. .. 258, Euston Rd., N.W.

Wheels (Geared).

Bodley Brothers & Co. .. Exeter
Coates Victor, & Co., Ltd. Lagan Foundry, Belfast
Craig A. F., & Co., Ltd. Paisley, N.B.
Fletcher John, & Sons .. Eagle Foundry, Salford,
Hadfield's Steel Foundry } Manchester
Co., Ltd. .. Hecla Works, Sheffield
Hawthorn R. & W., Leslie
& Co., Ltd. .. Newcastle-on-Tyne
Jackson P. R., & Co., Ltd. Salford Rolling Mills,
Manchester
Jessop W., & Sons, Ltd. .. Sheffield
Jones George, Ltd. .. Lionel St. Foundry, Bir-
mingham
Manlove, Alliot & Co., Ltd. Nottingham
Morse, Williams & Co. Philadelphia, Pa., U.S.A.
Nuttall R. D., & Co. .. Allegheny, Pa., U.S.A.
Poole R., & Son Co. Baltimore, Md., U.S.A.
Rogerson John, & Co., Ltd. Wolsingham, R.S.O., Co.
Durham
Schreiber S. (Rawhide) .. 8, Victoria Avenue,
Bishopsgate St., E.C.
Spencer John, & Sons, Ltd. Newburn Steel Works,
Newcastle-on-Tyne
Whittaker Wm., & Sons .. Oldham
Yates & Thom .. Blackburn, Lancashire

Wheels (Railway).

Ashbury Railway Carriage
and Iron Co., Ltd. .. Openshaw, Manchester
Hadfield's Steel Foundry
Co., Ltd. .. Hecla Works, Sheffield

MEMORANDA.

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For Key to Telegraphic Addresses, see page 64.

LIST OF ADDRESSES,

Telegraphic Addresses, Codes, & Telephone Numbers

OF

FIRMS NOW ADVERTISING in "ENGINEERING."

(NOTE.—With the exception of those otherwise marked, all Telephone Numbers are those of the National Telephone Company.)

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Abbot John, & Co., Ltd., Park Works, Gateshead-on-Tyne		.. {155&156 P.O. 440 & 445}	Abbot, Gateshead
1	Abbott & Co. (Newark), Ltd., Newark-on-Trent	.. .. —	Abbott, Newark
1 6	Adam J. M., & Scott, Ibrox Iron Works, Glasgow	.. .. —	Adamant, Glasgow
	Aird Jos., 46, Queen Victoria St., E.C.	.. .. —	Vigilantia, London
	Aird Jos., Wrot. Iron & Steel Tube Works, Great Bridge, Staffs.	Bank 1772	Vigilantia, Tipton
	Alexander E. P., 36, Southampton Buildings, W.C.	.. .. —	Epa, London
	Allen Edgar, & Co., Ltd., Imperial Steel Works, Sheffield	... 917	Allen, Sheffield
1 2	Allen W. H., Son, & Co., Queen's Engineering Wks., Bedford	.. .. —	Pump, Bedford
	Allen W. H., Son, & Co., 27, Old Queen St., S.W.	.. .. 4938	Pump, London
2 3 6	Alley & Maclellan, Sentinel Works, Glasgow	.. .. 673	Alley, Glasgow
2 4 5	Allis Edward P., Co., Milwaukee, Wis., U.S.A.	.. .. —	Allis, Milwaukee, Wis.
1	American Blower Co., 70, Gracechurch St., E.C.	.. .. —	Erithus, London
	Anderton A., & Sons, Antley Boiler Works, Accrington	.. 136	Anderton, Boiler, Church
	Anti-Attrition Metal Co., Ltd., Emerson St., Southwark, S.E.	.. .. —	Frictionless, London
1 2 3	Archdale Jas., & Co., Manchester Works, Lednam St., B'ham	.. .. —	Archdale, Birmingham
1 17	Armstrong J., & Co., Ltd., 116, Queen Victoria St., E.C.	[Bank 5294	Tolamaco, London
	Armstrong, Stevens & Son, Whittall St., Birmingham	.. .. —	Armstrongs, Birmingham
	Arrol Sir William, & Co., Ltd., Dalmarnock Iron Works, Bridge-		
	ton, Glasgow	.. .. 2519	Tay, Glasgow
1 3	Arrol's Bridge & Roof Co., Ltd., Germiston Works, Glasgow	4786	Germiston, Glasgow
	Asbestos Co., Ltd. (Bell's), 504, Southwark St., S.E.	.. .. —	Belfry, London
1 2 6	Asbestos Co., Ltd. (The United), Dock House, Billiter St., E.C.	.. .. —	Asbestos, London
1	Ashbury Railway Carriage Co., Openshaw, Manchester	.. 5118	Ashburys, Manchester
1 2 3	Ashton Valve Co., 1 and 2, Rangoon St., E.C.	.. .. —	Sprocket, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 17 Anglo-American.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 3	Askham Bros. & Wilson, Ltd. , Sheffield	213	Askham, Sheffield [ham
	Aston Chemical Co. , Birmingham	—	Composition, Birming-
1 2	Atlas Engineering Co. , Levenshulme, Manchester	6295	Atlas Wks., Levenshulme
	Auld David, & Sons , Whitevale Foundry, Glasgow	2612	Reducing, Glasgow
	Auto Machinery Co., Ltd. , Coventry	153	Auto, Coventry
1	Avery W. & T., Ltd. , Soho Foundry, Birmingham	547	Avery, Birmingham
6	Avonside Engine Co. , Bristol	—	Walker, Bristol
1 2 3	Bagnall W. G., Ltd. , Castle Engine Works, Stafford	15	Bagnall, Stafford
1	Bagshaw J., & Sons, Ltd. , Batley, Yorkshire	1046	Bagshaw, Batley
	Bailey W. H., & Co., Ltd. , Albion Works, Salford, Manchester ..	991	Beacon, Salford
	Baker Blower, Engineering Co. , Stanley Works, Sheffield ..	1027	Elivas, Sheffield
	Baker C. , 244, High Holborn, W.C.	—	Baker, Optician, London
	Barlow H. B., & Co. , Cornbrook Works, Manchester	3685	Works, Manchester
	Barns W., & Son , Perforating Works, Chalton St., N.W. ..	—	Perforation, London
1	Barron F. C., & Co. , 9, St. Mildred's Court, Poultry, E.C. ..	—	Noelaf, London
1	Baxter W. H., Ltd. , Leeds	663	Knapping, Leeds
	Beardmore William, & Co. , Parkhead Forge Rolling Mills and Steel Works, Glasgow	1356	Beardmore, Glasgow
6	Beardshaw J., & Son, Ltd. , Baltic Steel Works, Sheffield ..	77	Beardshaw, Sheffield
6	Beardshaw J., & Son, Ltd. , 118, Cannon St., E.C.	—	Democracy, London
1 2	Becker R., & Co. , 50A, Rivington St., Curtain Rd., E.C. ..	—	Cleavage, London
1	Bedford Engineering Co. , Bedford	—	Cranes, Bedford
	Bellamy John , Byng St., Millwall, E.. .. Eastern	5157	Bellamy, London
3	Belliss G. E., & Co., Ltd. , Ledsam St. Works, Birmingham ..	3518	Belliss, Birmingham
	Bement, Miles & Co. , Philadelphia, Pa., U.S.A.	—	Bement, Philadelphia
1	Bender & Martiny , 28, Gracechurch St., E.C. Avenue	126	Newbold, London
1	Berend O., & Co., Ltd. , Dunedin House, Basinghall Avenue, E.C. ..	—	Yttrium, London
1 3	Berry F., & Son , Sowerby Bridge, Yorkshire	1275	Berrys, Sowerby Bridge
2 3	Berry Henry, & Co., Ltd. , Croydon Works, Leeds	557	Rivetter, Leeds
1	Bessemer Henry, & Co., Ltd. , Sheffield	91	Bessemer, Sheffield
1	Best Belting Co. , Ltd., 13, Cullum St., E.C.	—	Notwithstanding, London
1	Bickford Burners Co. , Camborne, Cornwall	—	Bickford, Camborne
1	Bifurcated Rivet Co. , Ltd., 10, Wool Exchange, E.C.	—	Bifurcated, London
	Signall & Keeler Mfg. Co. , Edwardsville, Madison Co., Ill., U.S.A.	—	
	Billington & Newton , Longport, Stoke-on-Trent] Burslem	3004	Bronze, Longport
1, 2 3 6	Birch John, & Co., Ltd. , 10 & 11, Queen St. Place, E.C. Bank	1601	Endeavour, London
	Birmingham Battery and Metal Co., Ltd. , Birmingham ..	51	Battery, Selly Oak
	Blackburn, Starling & Co., Ltd. , 39, Arkwright St., Nottingham ..	238	Blackburn, Nottingham
1	Blackman Ventilating Co. , Ltd., 63, Fore St., E.C. Bank	37	Ventilator, London
	Blackman Ventilating Co. , Ltd., 3 & 5, Todd St., Manchester	860	Drier, Manchester
	Blackman Ventilating Co. , Ltd., 27, Victoria Sq., Leeds	1333	Blackman, Leeds
1 8	Blackwall Galvanized Iron Co., Ltd. , 4, Corbet's Court, E.C.	—	
	.. .. Avenue	11064	Promptitude, London
1 8	Blackwall Galvanized Iron Co., Ltd. , Orchard Pl., Blackwall	—	
	.. .. Eastern	5003	Silverine, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 8 International.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Blair, Campbell & McLean , Scotland Street Copper Works, Glasgow		—	Blazon, Glasgow
Blake John, Ltd. , Oxford St. Works, Accrington, Lancashire ..		—	Rams, Accrington
1 2 6	Blake & Knowles Steam Pump Works, Ltd. , 179, Queen Victoria St., E.C	Bank 5087	Steampump, London
Boby Robert, Ltd. , St. Andrew's Works, Bury St. Edmunds ..		—	
Boby William , 16, Union Court, Old Broad St., E.C. ..		Avenue 5964	Buccola, London
Bodley Bros. & Co. , Old Quay Foundry, Exeter		189	Bodley, Exeter
Bölian F. , 30, Snowhill, E.C.		—	
1 2 3 4	Bolling & Lowe , 2, Laurence Pountney Hill, E.C. ..	Bank 1530	Bird, London
1 3	Booth Joseph, & Bros. , Union Ironworks, Rodley, Leeds ..	2020	Cranes, Rodley
1 2 14	Bow, McLachlan & Co. , Thistle Works, Paisley	6	Bow, Paisley
1	Boyle R., & Son, Ltd. , 64, Holborn Viaduct, E.C.	—	Hypostile, London
1	Boyle R., & Son, Ltd. , 110, Bothwell St., Glasgow	—	Hypostile, Glasgow
Bradford J., & Sons , 44, Chapel St., Liverpool		—	Lubricants, Liverpool
Bradford Thos., & Co. , 140 to 143, High Holborn, W.C. ..		—	Bradfords, London
Bradford Thos., & Co. , Crescent Ironworks, Salford, Manchester		—	Vowel, Manchester
1 2 3	Bradley & Craven, Ltd. , Westgate Common Foundry, Wakefield	3	Craven, Wakefield
Bradley Pulverizer Co. , 37, Walbrook, E.C.		—	Wygo, London
1 4 6	Brainard Milling Machine Co. , 156, Oliver St., Boston, Mass., U.S.A.	—	Hillclark, Boston, U.S.A.
1 4	Braithwaite Isaac, & Son , Kendal	22	Braithwaite, Kendal
1 4	Braithwaite Isaac, & Son , 24, Garlick Hill, Cannon St., E.C. ..	Bank 116	Thereupon, London
Bremner J. A., & Co. , Albert St., Manchester		—	Roman, Manchester
Brewer & Son , 33, Chancery Lane, W.C.		—	Infallible, London
Bridge D., & Co. , King St. Engine Works, Salford, Manchester ..		—	Coupling, Manchester
1	Bristowe L. Hugh, & Co., Ltd. , 47, Victoria St., S.W.	—	Follosus, London
Britannia Co. , Colchester		—	Britannia, Colchester
British Aluminium Co., Ltd. , 9, Victoria St., Westminster, S.W.		Westminster 3286	Cryolite, London
British Boiler Cleaning & Enamelling Co. , 201, Stobcross St., Glasgow		—	Anticorrosive, Glasgow
British Schnockert Electric Co., Ltd. , Clun House, Surrey St., Strand, W.C.		—	
1 2 4	British Thomson-Houston Co., Ltd. , 83, Cannon St., E.C.	Bank 379 & 760	Asteroidal, London
British Viscoid Co., Ltd. , 35, Seething Lane, E.C.		—	
1	British Tube Co., Ltd. , Birmingham	2038	British, Birmingham
Broadbent Thos., & Sons, Ltd. , Chapel Hill, Huddersfield ..		102	Broadbent, Huddersfield
1	Brooke J. W., & Co. , Adrian Ironworks, Lowestoft	—	Brooke, Lowestoft
1	Brooke J. W., & Co. , 77A, Queen Victoria St., E.C.	—	Labourless, London
1 6	Brooks Locomotive Works , Dunkirk, N. Y., U.S.A.	67	Brooks, Dunkirk, U.S.A.
1	Brotherhood Peter , Belvedere Rd., Lambeth, S.E.	—	Brotherhood, London
Broughton Copper Co., Ltd. , Glasgow		1394	Copper Co., Glasgow
Broughton Copper Co., Ltd. , 122, Cannon St., E.C.		—	Copper Co., London
Broughton Copper Co., Ltd. , Manchester		638	Copper Co., Manchester
Brown, Bayley's Steel Works, Ltd. , Sheffield		82	Bayley, Sheffield
Brown C. J. , 109, Victoria St., Westminster, S.W.		—	

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 14 Commercial.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 4 15	Brown Holsting & Conveying Machine Co. , Cleveland, Ohio, U.S.A.	—	Brownhoist, Cleveland, U.S.A.
1 2 4 15	Brown Holsting & Conveying Machine Co. , 39, Victoria St., Westminster, S.W.	—	Shovelling, London
	Brown John, & Co., Ltd. , Sheffield	—	Atlas, Sheffield
1	Brown W. B., & Co. , Globe Works, Bankhall, Liverpool	4913	Steel-Rope, Liverpool
	Brown W. S., Jun., & Co. , 67, Washington St., Glasgow	4670	Spiral, Glasgow
1	Brymbo Steel Co., Ltd. , Wrexham	4	Steel, Wrexham
1 4	Buck & Hickman , 2 & 4, Whitechapel Rd., E.	{ New 844 Avenue 4450 }	Roeback, London
1 4	Bullard Machine Tool Co. , Bridgeport, Conn., U.S.A.	—	Bullard, Bridgeport, U.S.A.
	Bull's Metal & Melloid Co., Ltd. , 6, Jeffrey's Square, St. Mary Axe, E.C.	Avenue 4378	Melloid, London
	Burham Brick, Lime and Cement Co., Ltd. , Nicholas Lane, Lombard St., E.C.	—	
1 2	Burnet Lindsay, & Co. , Moor Park Boiler Works, Govan, Glasgow	1513	Burnet, Glasgow
1 2 9	Burnham, Williams & Co. , Dashwood House, 9, New Broad St., E.C.	1423	Rodadura, London
1 2 9	Burnham, Williams & Co. , Philadelphia, U.S.A.	—	Baldwin, Philadelphia
	Burrell C., & Sons, Ltd. , St. Nicholas Works, Thetford, Norfolk	—	Burrell, Thetford
1 4	Burton C. W., Griffiths & Co. , 1, 2 & 3, Ludgate Square, Ludgate Hill, E.C.	Bank 5423	Hibou, London
6	Butler J., & Co. , Victoria Ironworks, Halifax	216	Butler, Halifax, England
	Butters Bros. & Co. , 20, Waterloo St., Glasgow	3039	Butters, Glasgow
	Butterworth Bros., Ltd. , Newton Heath Glass Wks., M'chester	6622	Glasses, Newton Heath
	Caird & Rayner , 777, Commercial Rd., Limehouse, E.	[Eastern 210	Vaporize, London
1	Cameron John , Oldfield Rd. Ironworks, Salford	2002	Original, Manchester
1 2	Cammell Chas., & Co., Ltd. , Cyclops Steel & Ironworks, Sheffield	874	Cammell, Sheffield
	Cammell Charles, & Co., Ltd. , 1, Victoria St., Westminster, S.W.	(Westminster 3115	
1	Campbell & Calderwood , Soho Engine Wks., Paisley, Scotland	162	Soho, Paisley
	Carruthers J. H., & Co. , Polmadie Ironworks, Glasgow	3601	Holsting, Glasgow
11	Central Marine Engine Works , West Hartlepool	{ 4248 P.O. 18 }	Central, West Hartlepool
	Chadburn's (Ship) Telegraph Co., Ltd. , 11, Waterloo Rd., Liverpool	826	Chadburn, Liverpool
1	Champion Friction Clutch Co., Ltd. , Trent St., Attercliffe, Sheffield	2404	Velometer, Sheffield
1	Champion Friction Clutch Co., Ltd. , 9, London St., E.C.	—	Velometer, London
1	Chaplin Alex., & Co. , Govan, Glasgow	—	Chaplin, Glasgow
	Chapman & Hall, Ltd. , Henrietta St., W.C.	Gerrard 2711	Pickwick, London
	Chapman L. , Sail St., Lambeth, S.E.	—	
	Chase Wm. H. , 16, Little Trinity Lane, E.C.	—	
	Chatwin Thos. , Great Tindal St., Birmingham	—	Chatwin, Birmingham
6	Cherry John, & Sons , Pump Works, Beverley, Yorks	—	Cherry, Beverley
1 2	Chisholm & Law , Saracen Tube Works, Glasgow	3270	Kosmos, Glasgow
1 4	Churchill Chas., & Co., Ltd. , 9 to 15, Leonard St., Finsbury, E.C.	—	Opodeldoc, London
	Clark Gordon P. , 10, Lansdowne Rd., Notting Hill, W.	—	

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 9 Vanguard. 11 Scott's. 15 Atlantic Cable.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 3	Clarke, Chapman & Co. Ltd. , Gateshead-upon-Tyne ..	—	Cyclops, Gateshead
	Clark's Engineering & Machine Tool Co., Ltd. , Luton, Beds.	—	Conquest, Luton
	Clay Cross Co. , Clay Cross, near Chesterfield	147	Jackson, Clay Cross
1 6	Clayton & Shuttleworth , Lincoln	43	Claytons, Lincoln
1 5 6	Clayton & Shuttleworth , 95, Queen Victoria St., E.C. ..	—	Clayton Shuttleworth London
		84	Clenoh, Chesterfield
1 2 3	Clench & Co., Ltd. , Lincoln Works, Chesterfield	1832	Clyne, Birmingham
1 4	Cleveland Machine Screw Co. , 25, Albert St., Dale End, Birmingham	1574	Rivet, Glasgow
	Clyde Rivet Works Co. , Glasgow	—	Darby, Coalbrookdale
	Coalbrookdale Co., Ltd. , Coalbrookdale, R.S.O., Shropshire	—	
1	Coalbrookdale Co., Ltd. , 1, Victoria Embankment, Blackfriars, E.C.	1026	Severndale, London
	Coates Victor, & Co., Ltd. , Lagan Foundry, Belfast	93	Lagan Foundry, Belfast
1	Cochran & Co. Duke St., Birkenhead	12	Multitube, Birkenhead
1 3	Cochrane John, Barrhead, N.B.	—	Cochrane, Barrhead
	Coll Clutch & Pulley Co., Ltd. , Broad St. House, E.C. ..	—	Irradiating, London
	Cole Henry A., & Co., Coronet Works, Liverpool	109	Satisfactory, Liverpool
	Coles H. J., London Crane Works, Derby	—	
	Coltman H., & Sons , Midland Ironworks, Loughborough	1727	Coltmans, Loughborough
1 10	Colville David, & Sons, Ltd. , Dalzell Steel and Iron Works, Motherwell, near Glasgow	—	Colville, Motherwell
	Colville David, & Sons, Ltd., 3, Fenchurch Avenue, E.C. ..	—	Colville, London
	Conveyor & Elevator Co. , Accrington, Lancashire	—	Conveyor, Accrington
	Cook Robt. J., & Hammond , 2 & 3, Tothill St., S.W. [Westminster	185	Cartoons, London
1	Coulthard T., & Co. , Preston	140	Coulthards, Preston
1 2	Cowans, Sheldon & Co., Ltd. , Carlisle	1013	St. Nicholas, Carlisle
	Cowlishaw, Walker, & Co., Ltd. , Etruria, Stoke-on-Trent	—	Cowlishaw, Etruria, Stoke-on-Trent
1 3	Craddock Geo., & Co. , Wire Rope Works, Wakefield	26	Craddock, Wakefield
1	Craig A. F. & Co., Ltd. , Paisley	20	Craig, Paisley
	Craig & Donald , Johnstone, Renfrewshire, N.B.	15	Craig-Donald, Johnstone
	Croft & Perkins , Leeds Rd., Bradford, Yorks.	349	Pulleys, Bradford
	Crompton & Co., Ltd. , Arc Works, Chelmsford	—	Crompton, Chelmsford
	Crompton & Co., Ltd. , Mansion House Buildings, E.C. ..	Bank 663	Crompton, London
	Crosby Steam Gage & Valve Co. , 75, Queen Victoria St., E.C.	Bank 1509	Crosby, London
	Crosier, Stephens & Co. , 2, Collingwood St., Newcastle-on-Tyne	1641	Gromil, Newcastle-on-Tyne
2	Crossley Bros., Ltd. , Openshaw, Manchester	—	Crossleys, Openshaw
	Crow, Harvey & Co. , Park Grove Iron Works, Glasgow ..	1580	Cook, Glasgow
	Cruikshanks & Fairweather , 62, St. Vincent St., Glasgow	791	Patents, Glasgow
1	Cundall R., & Sons. , Ltd., Shipley, Yorks	75	Cundall, Shipley
1	Curtis & Curtis , 10, Garden St., Bridgeport, Conn., U.S.A. .	—	Curtis, Bridgeport, U.S.A.
	Daniell S. A., Ltd. , Edward St. Parade, Birmingham	746	Daniell, Birmingham
	Darlington Forge Co., Ltd. , Darlington	9 & 10	Forge, Darlington
	Davey Arthur J., 122, Cannon St., E.C.	Avenue 2078	Deskwork, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 10 Cosmopolitan.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2	Davey, Paxman & Co., Ltd. , Standard Ironworks, Colchester	—	Paxman, Colchester
	Davies W. J., & Sons , 109, Weston St., S.E.	—	Emery, London
1	Davis & Primrose , Etna Iron Works, Bangor Rd., Leith, N.B.	—	Etna, Leith
	Day, Summers & Co. , Northam Ironworks, Southampton . .	48	Day Summers, S'hampton
1	De Bergue & Co., Ltd. , Strangeways Iron Works, Manchester	1921	Dobergue, Manchester
	Decauville Aîné, 7, Idol Lane, E.C.	2276	Vonglehn, London
	Doighton's Patent Flue & Tube Co., Ltd. , Vulcan Works, Pepper Rd., Leeds	1674	Flues, Leeds
3	Dell Wm. R., & Son , 26, Mark Lane, E.C.	Avenue 2275	Cosgrove, London
1	Delta Metal Co., Ltd. , 110, Cannon St., E.C.	Avenue 11292	Delta, London
1	Dempster, Moore & Co. , 49, Robertson St., Glasgow	505	Dempster, Glasgow
1 6	Denison Saml., & Son , Hunslet Carr, Leeds, S.	221	Welgh, Leeds
	Dennis W. F., & Co. , 23, Billiter St., E.C.	Avenue 4350	Fredennis, London
	Dennystown Forge Co. , Dumbarton	58	Forge, Dumbarton
	Detombay, Delange & Cie. , Engineering Works, Hoboken, } near Antwerp	—	Chescaut, Hoboken-Anvers
1 2 3	Dick, Kerr & Co., Ltd. , 110, Cannon St., E.C.	Avenue 4306	Dicker, London
1 2	Dick B. & J. , Greenhead Works, Glasgow	2534	Guttapercha, Glasgow
	Dixon Isaac, & Co. , Windsor Ironworks, Spekeland Rd., Liverpool	8604	Roefing, Liverpool
1	Dixon Jos., Crucible Co. , 28, Victoria St., S.W.	—	Lustroso, London
1 6	Dodman Alfred, & Co., Ltd. , Highgate Works, King's Lynn . .	20	Dodman, King's Lynn
1 2 3 4	Donald Jas. T., & Co., Ltd. , 345, Argyle St., Glasgow	1232 & 3066	Mechanikos, Glasgow
	Donkin Bryan, & Co., Ltd. , Southwark Park Rd., S.E. . . . .	.Hop 4662	Donkin Company, London
	Dorman & Smith , 94, Charing Cross Rd., W.C.	Gerrard 5091	Prefix, London
	Dorman & Smith , Salford, Manchester	—	Current, Manchester
1 2 3	Dorman, Long & Co., Ltd. , Middlesbrough	{ 5020 } P.O. 8	Dorman, Middlesbrough
	Dorman, Long & Co., Ltd. , 19, Victoria St., Westminster, S.W.	{ Westminster } 3152	Dorman, 19, Victoria St., Westminster
1 2	Douglas & Grant , Dunnikier Foundry, Kirkcaldy, N.B. . .	—	Douglas, Kirkcaldy
1	Doulton & Co., Ltd. , Lambeth . . . . .	.Hop 4621	Doulton, London
	Dowson Economic Gas & Power Co., Ltd. , 39, Old Queen St., Westminster, S.W.	—	Gaseous, London
	Dowson, Taylor & Co., Ltd. , 14, Victoria St., Westminster, S.W.	Westminster 143	Sprinklers, London
	Drysdale & Co. , Bon Accord Engine Works, Glasgow	2505	Bonaccord, Glasgow
East Ferry Road Engineering Works Co., Ltd. , Millwall, E.			
		Eastern 5202	Hydrostatic, London
Ebbw Vale Steel, Iron & Coal Co., Ltd. , 122, Cannon St., E.C.			
		Bank 838	Furnaces, London
Ebbw Vale Steel, Iron & Coal Co., Ltd. , Mon., S. Wales			
		—	Company, Ebbw Vale
Edison & Swan United Electric Light Co., Ltd. , 36 & 37, Queen St., Cheapside, E.C.			
		Bank 1805	Ediswan, London
Edmeston A., & Sons , Cannon St. Ironworks, Salford			
		1595	Edmeston, Adelphi, Salford
Edwards & Co. , Millwall, E.			
		—	Yola, London
Edwards Air Pump Syndicate, Ltd. , 3, Crown Court, Old Broad St., E.C.			
		Avenue 152	Liabie, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Morsing's. 6 Private.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Electrical and General Engineering College , Penywern House, 2 & 4, Penywern Rd., Earl's Court, S.W.		—	Tunzelman, London
1 2 Electrical Power Storage Co., Ltd. , 4, Great Winchester St., E.C.	Avenue 538		Storage, London
Elliot George, & Co. , 16, Great George St., Westminster, S.W. ..	—		Elliot Company, London
Elliot George, & Co. , Cardiff	—		Elliot Company, Cardiff
1 Elliott Brothers , 101, St. Martin's Lane, W.C.	Gerrard 3852		Ohm, London
1 Ellison W. T., & Co., Ltd. , Irlams'-o'-th'-Height, Manchester { Pendleton } 30 }			Ellison, Irlams'-o'-th'-Height
1 Elworthy H. S. , 239, Dashwood House, New Broad St., E.C. ..	—		Volacious, London
Empire Engineering Co. , Failsworth, Manchester	6636		Lubric, Failsworth
1 Engelbert & Co. , 44-47, Bishopsgate St., E.C.	Avenue 1243		Engelbert, London
1 "Engineering," 35 & 36, Bedford St., Strand, W.C.	Gerrard 3663		Engineering, London
Evans & Widowfield , 5, Bute Crescent, Cardiff	146		Brattice, Cardiff
Eveson Coal and Coke Co., Ltd. , Birmingham	815		Eveson, Birmingham
1 2 Expanded Metal Co., Ltd. , Stanton Works, West Hartlepool ..	—		Expansion, W. Hartlepool
Expanded Metal Co., Ltd. , 39, Upper Thames St., E.C.	1289		Distand, London
Kyre & Spottiswoode , Great New St., E.C.	Holborn 65100		Spotless, London
1 Fairbanks Co. , 16, Great Eastern St., E.C.	—		Fairbanks, London
Fairley James, & Sons , Old Mint, Shadwell St., Birmingham ..	253		Fairley, Birmingham
1 5 Farnley Iron Co., Ltd. , Leeds	349		Farnley, Leeds
1 Fielding & Platt, Ltd. , Gloucester	58		Atlas, Gloucester
Findlay Alexander, & Co. , Motherwell, N.B.	—		Findlay, Motherwell
1 2 3 5 Firth Thos., & Sons, Ltd. , Norfolk Works, Sheffield	676		Firth, Sheffield
1 Fleming & Ferguson, Ltd. , Paisley, near Glasgow	18		Phoenix, Paisley
1 Fleming, Birkby & Goodall, Ltd. , West Grove Mill, Halifax ..	48		Fleming, Halifax
1 Fleming, Birkby & Goodall, Ltd. , Clifton Bridge Mills, Brighouse	—		Goodalls, Brighouse
1 Fleming, Birkby & Goodall, Ltd. , Salford Card Works, Brighouse ..	—		Salford, Brighouse
1 Fleming, Birkby & Goodall, Ltd. , Woodfield Mills, Liversedge ..	—		Woodfield, Liversedge
Fletcher John, & Son , Eagle Foundry, Salford, Manchester	2064		Wheels, Manchester
Flower & Everett , 69, King William St., E.C.	—		
Foot R. G., & Co. , 12, Great St. Thomas Apostle, E.C.	—		Footpost, London
Forrest & Son, Ltd. , 101, Leadenhall St., E.C.	Avenue 5942		Forestiere, London
Forrest & Son, Ltd. , Wyvenhoe, Essex	—		Forrest, Wyvenhoe
Foster William, & Co., Ltd. , Wellington Foundry, Lincoln	18		Foster, Lincoln
1 2 5 Fowler John, & Co. (Leeds) Ltd. , 6, Lombard St., E.C.	—		Steamplow, London
1 2 5 Fowler John, & Co. (Leeds) Ltd. , Steam Plough Works, Leeds ..	513		Fowler, Leeds
Fox Samuel, & Co., Ltd. , Stocksbridge Works, nr. Sheffield (Stocksbridge 8)	—		Fox, Deepcar
Fox Samuel, & Co., Ltd. , Palace Chambers, Bridge St., Westminster, S.W.	—		
Francis & Co., Ltd. , 4, Eastcheap, E.C.	Avenue 132		Cementum, London
1 2 4 5 Fraser & Chalmers, Ltd. , 48, Threadneedle St., E.C. [Avenue 1168]			Vanner, London
1 Fraser John, & Son , Millwall Boiler Works, E.	Eastern 5071		Highpressure, London
Fraser W. J., & Co. , 93, Commercial Rd. East, E.	Avenue 4413		Fraser, Engineer, London
1 Frictionless Engine Packing Co., Ltd. , Cable Mills, Glasshouse St., Oldham Rd., Manchester	1496		Packless, Manchester
Fuller, Horsey, Sons & Cassell , 11, Billiter Square, E.C. [Avenue 746]			Fuller Horsey, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. D

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 3 6	Galloways Ltd., Manchester	195	Galloway, Manchester
	Gandy Belt Mfg. Co., Ltd., Wheatland Wks., Seacombe, Cheshire ..	1542	Gandy, Birkenhead
	Gandy Belt Mfg. Co., Ltd., 97, Queen Victoria St., E.C. ..	—	Gandy, London
	Gandy Belt Mfg. Co., Ltd., 33, Queen St., Glasgow ..	—	Gandy Belt, Glasgow
	Gandy Belt Mfg. Co., Ltd., 3c, Guardian Buildings, Cross St., Manchester	—	Gandy Belt, Manchester
1 3	Gardner & Sons, Barton Hall Engine Works, Patricroft, Manchester	Eccles 48	Theorem, Patricroft
1	Garrett R., & Sons, Ltd., Leiston Works, Suffolk	—	Garrett, Leiston
	Gehrockens C. Otto, Hamburg	—	Riemlager, Hamburg
	Geipel & Lange, 68, Victoria St., S.W.	Westminster 578	Patella, London
	Gibbins R. C., & Co., Berkeley St., Birmingham	741	Gibbins, Birmingham
	Glasgow Iron & Steel Co., Ltd., 36, St. Vincent Pl., Glasgow ..	825	Ingot, Glasgow
1	Glenboig Union Fire Clay Co., Ltd., 48, W. Regent St., Glasgow ..	1009	Glenboig, Glasgow
1 2	Glenfield Co., Ltd., Kilmarnock, N.B.	28	Glenfield, Kilmarnock
	Glover M., & Co., Leeds	984	Glovers, Engineers, Leeds
1	Goldsworthy T., & Son, Hulme, Manchester	993	Goldsworthy, Manchester
6 15 16	Goubert Mfg. Co., New York, U.S.A.	Cortlandt 4728	Goubert, New York
6 15 16	Goubert Mfg. Co., 47, Victoria St., Westminster, S.W. ..	—	Unisonally, London
1	Grafton & Co., Bedford	—	Grafton, Engineers, Bedford
1	Grafton & Co., 113, Cannon St., E.C.	—	Graftonian, London
	Grange Iron Co., Ltd., Foundry, Engineering and Boiler Works, Durham	5	Grange, Durham
	Granger A. W., Brooke Rd., Stoke Newington, N.	—	Nozzles, London
	Greaves, Bull & Lakin, 13, South Wharf, Paddington, W. (Paddington	7138	Lias, London
	Greaves, Bull & Lakin, Warwick	—	Greaves, Warwick
	Greaves, Bull & Lakin, Birmingham	846	Greaves, Birmingham
1	Green & Boulding, 105, Bunhill Row, E.C.	—	Temperature, London
1	Green T., & Son, Smithfield Iron Works, Leeds	158	Smithfield, Leeds
1	Green T., & Son Ltd., Surrey Works, Blackfriars Rd., S.E. ..	Hop 571	Surrey Works, London
1 2 3 4	Greenwood & Batley, Ltd., Albion Works, Leeds	270	Greenwood, Leeds
1	Gresham & Craven, Ltd., Salford, Manchester	613	Brake, Manchester
	Grice, Grice & Son, Sheepcote St., Birmingham	—	Grice, Birmingham
	Grieve John, & Co., Motherwell, Scotland	—	Grieve, Motherwell
	Griffin C., & Co., Ltd., Exeter St., Strand, W.C.	—	Adopted, London
	Grover & Co., Ltd., Wharf Rd., City Rd., N.	—	Adopted, London
	Grusonwerk, Magdeburg-Buckau, Germany	—	Adopted, London
	Guilbert-Martin, 1 & 2, Falcon St., Aldersgate St., E.C. ..	—	Photophore, London
1	Gunther W., & Sons, Central Works, Oldham	317	Gunther, Oldham
1 2	Gwynne & Co., Brooke St. Works, Holborn, E.C.	Holborn 95	Gwynnegram, London
1 6	Gwynne J. & H., Ltd., Hammersmith Ironworks, W., & 64, Cannon St., E.C.	Bank 544	Gwynne, London
1 5	Hadfield's Steel Foundry Co., Ltd., Hecla Works, Sheffield ..	750	Hadfield, Sheffield
1 6 8	Haigh W. B., & Co., Ltd., Globe Ironworks, Oldham	146	Haigh, Oldham
	Halden J., & Co., 8, Albert Square, Manchester	—	Halden, Manchester
1 2	Hall J. & E., Ltd., 23, St. Swithin's Lane, E.C.	Bank 1846	Hallford, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 8 International. 15 Atlantic Cable. 16 Western Union.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2	Hall J. & E., Ltd., Dartford, Kent	Dartford 7	Hallford, Dartford
1 2	Hall J. P., & Co., Blackriding Ironworks, Werneth, Oldham ..	300	Dynamo, Oldham
1	Hancock Inspirator Co., Old Swan Wharf, London Bridge, E.C.	Bank 1904	Inspirator, London
	Handyside Andrew, & Co., Ltd., Britannia Ironworks, Derby ..	57	Handyside, Derby
	Handyside Andrew, & Co., Ltd., 104, Queen Victoria St., E.C. [Bank 1969		Handyside, London
1	Hanna, Donald & Wilson, Abercorn Foundry, Paisley ..	72	Donald, Paisley
	Hannan & Buchanan, 75, Robertson St., Glasgow ..	—	Hannan, Glasgow
1 3	Hardy Patent Pick Co., Ltd., Sheffield	157	Hardypick, Sheffield
	Harris & Mills, 20, Southampton Buildings, W.C. ..	2820	Privilege, London
6	Hartley & Sugden, Ltd., Halifax	38	Bollers, Halifax
	Hartnell Wilson, Volt Works, Kirkstall Rd., Leeds ..	282	Hartnell, Leeds
1	Haslam Foundry & Engineering Co., Ltd., Derby ..	50	Zero, Derby
1	Hathorn, Davey & Co., Sun Foundry, Leeds	524	Hathorn, Leeds
	Hawthorn R. W., Leslie & Co., Ltd., Newcastle-on-Tyne ..	—	Locomotive, Newcastle
1	Hayes Edward, Stony Stratford, Wolverton, & 12, Gt. St. Helen's, E.C.	—	Hayes, Stony Stratford
1 6	Hayward-Tyler & Co., 90 & 92, Whitecross St., E.C. ..	Bank 192	Tylerox, London
	Heagard Metal Co., 137, Lionel St., Birmingham ..	39A	Heagard, Birmingham
	Heap Joshua, & Co., Ltd., Ashton-under-Lyne	—	Heap, Limited, Ashton-under-Lyne
	Hearson R. O., Ltd., 15 and 17, Creechurch Lane, E.C. ..	—	
1 5	Heenan & Froude, Newton Heath Ironworks, Manchester ..	966	Spherical, Newton Heath
7	Heenan & Froude, Aston, Birmingham	2628	Spherical, Birmingham
	Hellcold Locknut Patents (Parent) Co., Ltd., 147, Dashwood House, New Broad St., E.C.	Avenue 5833	Effectible, London
	Henderson & Glass, Liverpool	791	Vulcan, Liverpool
	Hendey Machine Co., Torrington, Conn., U.S.A.	—	
	Henry Rifled Barrel Engineering & Small Arms Co., Ltd., Eagle Wharf Rd., N.	Dalston 125	Blenheim, London
1 2	Henry Wells Oil Co., Imperial Oil Works, Deansgate, Manchester	2593	Lubricant, Manchester
	Herbert Alfred, Ltd., Coventry	52	Lathe, Coventry
1	Hetherington John, & Sons, Ltd., Manchester	—	Heth, Manchester
1	Higginbottom & Co., Ltd., Seel St., Liverpool	5800	Disc, Liverpool
1	Hildick & Hildick, Walsall Tube Works, Walsall	14	Hildick, Walsall
	Hill Isaac, & Son, St. George's Engineering Wks., Woods Lane, D'rb'y	227	Hill, Derby
	Hill & Smith, Brierley Hill, near Dudley	9002A	Fencing, Brierley Hill
	Hill & Smith, 118, Queen Victoria St., E.C.	Bank 15012	Fencing, London
	Hill & Smith, Dublin	—	Fencing, Dublin
	Hill & Smith, Glasgow	—	Fencing, Glasgow
	Hindley E. S., Bourton, Dorset	—	Hindley, Bourton
	Hindley, E. S., 11, Queen Victoria St., E.C.	Bank 1856	Steamport, London
	Hodges & Co., Cazenove Works, Dunstable	—	
1	Holden & Brooke, Ltd., Sirius Works, West Gorton, Manchester	3663	Influx, Manchester
1	Holgate Chas. H., School Close Works, Leeds	2272	
1	Holmes J. H., & Co., Portland Rd., Newcastle-on-Tyne ..	6504	Holmes, Newcastle
1	Holmes J. H., & Co., 17, Soho Sq., W.	Gerrard 2691	Vermillionette, London
1	Holmes J. H., & Co., Examiner Buildings, Strutt St., Manchester	25	Compound, Manchester

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 7 Sell's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 3 6	Hornsby R., & Sons, Ltd., Spittlegate Ironworks, Grantham ..	—	Hornsby's, Grantham
1 2 3 6	Hornsby R., & Sons, Ltd., 75A, Queen Victoria St. E.C. ..	Bank 1960	Hornsby's, London
	Horsfield Ralph, & Co., Chapel-en-le-Frith, Derbyshire ..	—	Forge, Chapel-en-le-Frith
1	House & Co., Ltd., Marlboro' Works, 36, Vauxhall Rd., Liverpool	6906	Jointing, Liverpool
	Houston J. & R., Greenock, N.B.	70	Iron, Greenock
1	Howell & Co., Ltd., Brook Steel Works, Sheffield	—	Howell, Sheffield
1 2	Hudswell, Clarke & Co., Railway Foundry, Leeds	504	Loco, Leeds
	Hughes & Lancaster, Liverpool	2034	Diagram, Liverpool
	Hughes & Lancaster, 47, Victoria St., Westminster, S.W. ..	—	Voidance, London
	Hughes & Lancaster, Acrefair, Ruabon	2	Voidance, Ruabon
	Hulburd Engineering Co., 150, Leadenhall St., E.C.	—	Unwavering, London
1 2	Hulse & Co., Ltd., Ordsal Works, Salford, Manchester ..	1427	Esluh, Manchester
1	Humboldt Engineering Works Co., Kalk, near Cologne	37	Humboldt, Kalk
1	Humpidge, Holborow & Co., Ltd., Dudbridge, near Stroud ..	Stroud 7	Humpidge, Cainscross
1	Hunslet Engine Co., Leeds	523	Engine, Leeds
	Hunt & Mitton, Oozells St. North, Birmingham	394	Mitton, Birmingham
1	Hunt R., & Co., Atlas Works, Earls Colne, Essex	—	Hunt, Earls Colne
1	Hunter & English, Bow, E.. .. .	Stratford 6045	Venator, London
	Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell	29	Nelson, Motherwell
	Hutchinson, Hollingworth & Co., Ltd., Dobcross Loom Works, Dobcross [Marsden Exchange 10		Foundry, Dobcross
1	Hydro-Kinetic Engineering Syndicate, Ltd., Princes Chambers, 6, Corporation St., Birmingham	—	Pneumatics, Birmingham
1	Hydro-Kinetic Engineering Syndicate, Ltd., 239, Dashwood House, E.C.	—	Volacious, London
	Improved Patent Forced Draught Furnace Syndicate, Ltd., 73, Queen Victoria St., E.C.	—	Openwork, London
2	India Rubber, Gutta Percha and Telegraph Works Co., Ltd., 106, Cannon St., E.C.	Bank 1728	Silvergray, London
2	India Rubber, Gutta Percha and Telegraph Works Co., Ltd., Silvertown, Essex	—	Graysilver, London
	Ipswich Tannery, Ltd., Suffolk	141	The Tannery, Ipswich
1	Ironmongers' Rope Works, Ltd., Brickfield St., Wolverhampton	33	Reliance, Wolverhampton
	Isca Foundry Co., Newport, Monmouthshire	—	Isca, Newport
	Isca Foundry Co., 10, Bush Lane, Cannon St., E.C.	—	Isca, London
	Isler C., & Co., Artesian Works, Bear Lane, S.E.	Hop 4949	Isler, London
	Isles Limited, Steam Crane Works, Stanningley, Leeds ..	2045	Isles, Stanningley
	Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester ..	623	Jacksons, Manchester
2	Jardine John, Nottingham	295	Jardine, Nottingham
1 4	Jenkin Bros., 71, John St., New York, U.S.A.	Cortlandt 419	Pipkin, New York
	Jensen & Son, 77, Chancery Lane, W.C.	Holborn 1249	Venture, London
2 3 5	Jessop & Appleby Bros. (Leicester & London), Ltd., Leicester	73	Jessop, Leicester
1 2 3 5	Jessop & Appleby Bros. (Leicester & London), Ltd., London	—	Millwright, London
1	Jessop Wm., & Sons, Ltd., Brightside Works, Sheffield ..	152	Jessops, Sheffield

Telegraphic Codes in use: 1 A.B.C. 2 A.1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Johnson & Phillips , Victoria Works, Old Charlton, Kent		—	Juno, Charlton
1 2 3 Johnson & Phillips , 14, Union Court, E.C.	Avenue 1010		Juno, London
1 Johnson & Phillips' Electric Cable Works , Charlton, Kent	Old Woolwich 46		Cables, Old Charlton
Johnson Wm., & Sons , Castleton Foundry, Armley, Leeds	387		Ronksley, Armley
Jones George, Ltd. , Lionel St. Foundry, Birmingham	1003		Jones, Limited, Lionel Street, Birmingham
Jones & Lamson Machine Co. , Exchange Buildings, Stephenson Place, Birmingham		—	Compact, Birmingham
Kaye Jos., & Sons , Lock Works, Leeds		506	Kaye, Hunslet
Keighley Engineering Co. , Waddington St., Keighley		—	Engineering, Keighley
Kell Richard, & Co. , 7, Sandhill, Newcastle-on-Tyne		—	Mitchelsen, Newcastle-on- Tyne
Kell T., & Son , 40, King St., Covent Garden, W.C.		—	Lithographer, London
1 2 Kendall & Gent , Belle Vue, Hyde Rd., Manchester	330		Tools, Manchester
1 Kennedy James, & Co. , 69, Buchanan St., Glasgow	901		Lignum, Glasgow
1 Kennedy's Patent Water Meter Co., Ltd. , Kilmarnock, Scotland	Glasgow 12		Kennedy, Kilmarnock
1 2 Kerr, Stuart & Co., Ltd. , 20, Bucklersbury, E.C.	—		Melliss, London
1 2 Kerr, Stuart & Co., Ltd. , Stoke-on-Trent	213		California, Stoke-on-Trent
Kincaid John G., & Co. , Greenock, Scotland	95		Kincaid, Greenock
Kirk Wheatley, Price & Goulty , 52, Queen Victoria St., E.C.		Bank 15077	Indices, London
Kirk Wheatley, Price & Goulty , Albert Sq., Manchester		New 199	Indicator, Manchester
Kirkaldy John, Ltd. , 101, Leadenhall St., E.C.		—	Compactum, London
Kirkstall Forge Co. , Leeds		—	Forge, Kirkstall
Kirsch Aug. , Damm-Aschaffenburg (Bavaria)		—	Werkzengfabrik Kirsh, Damm-Aschaffenburg, Bavaria
1 Kittel & Co., Ltd. , London		Avenue 415	Centrum, London
1 2 3 Klein Engineering Co., Ltd. , 9, South Parade, Manchester		4070	Modernize, Manchester
1 Klinger Richard, & Co. , 66, Fenchurch St., E.C.		—	Sustained, London
Koppel Arthur , Peninsular House, Monument St., E.C.		—	Alighting, London
Körting Bros. , 53, Victoria St., Westminster, S.W.		—	Körting, London
Lamberton & Co. , Coatbridge, N.B.		45	Lamberton, Coatbridge
1 2 Lanarkshire Steel Co., Ltd. , Motherwell, N.B.		7	Siemens, Motherwell
1 5 6 Lancashire Patent Belting & Hose Co. , Manchester		1001	Macmechan, Manchester
1 Lancaster & Tonge, Ltd. , Pendleton, near Manchester		{ 559 New 5001 }	Pistons, Manchester
6 Lang John, & Sons , Lathe Makers, Johnstone, N.B.		12	Lang, Johnstone
1 Laurence, Scott & Co., Ltd. , Norwich		246	Gothic, Norwich
Lawrence Patent Water Softener Sterilizer Co. , Norland Yard, Uxbridge Rd. Station, W.		—	
1 Laycock W. S. , Victoria Works, Sheffield		907	Invention, Sheffield
Ledward T., & Co. , 35, Queen Victoria St., E.C.		Bank 5490	Preferment, London
Lo Grand & Sutcliff , 125, Bunhill Row, E.C.			Abyssinian, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
	Lee, Howl & Co., Ltd. , Tipton	9	Howl, Tipton
	Lee, Howl & Co., Ltd. , 5, Dowgate Hill, Cannon St., E.C. ..	Bank 281	Prepollent, London
	Leeds Engineering and Hydraulic Co. , Cross Stamford St., Leeds	786	Pumps, Leeds
	Leeds Forge Co., Ltd. , Leeds	107	Vulpes, Leeds
	Leeds Steel Works, Ltd. , Leeds	—	Bessemer, Leeds
	Lees T. & R. , Hollinwood, near Manchester	6618	Lees, Hollinwood
	Legg William F. , Newbridge, Wolverhampton	—	Legg, Newbridge, Wolverhampton
	Leroy F. & Co. , Gray St., Commercial Rd., E.	—	Efficiency, London
1 2	Lewis E. & Sons , Wolverhampton	7015	Lewis, Wolverhampton
1 2 3	Linde British Refrigeration Co., Ltd. , 35, Queen Victoria St., E.C.	Bank 1573	Separator, London
1 2 3	Linde British Refrigeration Co., Ltd. , Lower Shadwell, E. [Eastern 5041		Refrigeration, London
	Lindsay R. B. & Co. , 43, Mair St., Plantation, Glasgow ..	1880	Conical, Glasgow
	Linley & Bingham , Clough Works, Sheffield	1079	Scythes, Sheffield
1 2	Litholine Co. , 31, Whitworth St., Manchester	—	Constant, Manchester
	Llewellyn Machine Co. , Bristol	—	Llewellyns, Bristol
	Lloyd & Davis , 64, Sumner St., S.E.	—	Exhausters, London
1 2	Lloyd & Lloyd, Ltd. , Albion Tube Works, Birmingham ..	282	Lloyds, Birmingham
	Lobnitz & Co., Ltd. , Renfrew, Scotland	—	Lobnitz, Renfrew
	Lockwood & Carlisle, Ltd. , Eagle Foundry, Sheffield ..	1376	Piston, Sheffield
	Lockwood Crosby, & Son , 7, Stationers' Hall Court, E.C. ..	—	
	London Emery Works Co. , 10 & 12, Vine St., Clerkenwell, E.C.	Holborn 6817	Naxium, London
	Longsdon A. & W. , Waterloo Ironworks, Poole	28	Ironworks, Poole
1 2 3 6	Loudon Bros. , Clyde Engineering Works, Johnstone, N.B. ..	553	Achilles, Glasgow
	Lucas & Davies , 67, Farringdon Rd., E.C.	—	
1	Luke & Spencer, Ltd. , Broadheath, near Manchester [Altrincham 49		Emery, Broadheath
	Lunkenheimer Co. , Cincinnati, Ohio, U.S.A.	—	Lunken, Cincinnati
	Lunkenheimer Co. , 26, Cortlandt St., New York, U.S.A. ..	—	Lunken, New York
	Lunkenheimer Co. , 35, Great Dover St., S.E.	—	Lunken, London
	Lytham Shipbuilding & Engineering Co. , Lytham, Lanc. ..	59	Sternwheel, Lytham
	Mackies, Ltd. , Berks Ironworks, Reading	86	Machinery, Reading
2	MacLellan P. & W., Ltd. , Clutha Ironworks, Plantation, Glasgow	560	MacLellan, Glasgow
1 2 4	MacLellan P. & W., Ltd. , Offices: 129, Trongate, Glasgow ..	—	MacLellan, Glasgow
	MacLellan P. & W., Ltd. , 7 & 8, Great Winchester St., E.C. ..	—	MacLellan, London
	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd. , 49, Queen Victoria St., E.C.	—	Magnoller, London
1 2 4	Manlove, Allott & Co., Ltd. , Nottingham	274	Manloves, Nottingham
1 2 4	Manlove, Allott & Co., Ltd. , Glasgow	—	Manloves, Glasgow
1 2 4	Manlove, Allott & Co., Ltd. , 57, Gracechurch St., E.C. [Avenue 1053		Manloves, London
1 2 4	Manlove, Allott & Co. , Manchester	—	Manloves, Engineers, Manchester
1 3	Manning, Wardle & Co. , Boyne Engine Works, Leeds ..	514	Manning, Leeds
	Marsden H. R. , Soho Foundry, Leeds	526	Marsden, Leeds

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6 Private.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Marshall, Fleming & Jack , Motherwell		—	Dellburn , Motherwell
Marshall John, & Sons , Glasgow Tube Works, Glasgow, N.B. ..		2524	Tube , Glasgow
1 2 3 6	Marshall, Sons & Co., Ltd. , Gainsborough	10	Marshalls , Gainsborough
1 2 3 6	Marshall, Sons & Co., Ltd. , 79, Farringdon Rd., E.C. [Holborn 648	—	Engine , London
Martin W. A., & Co. , 9, Pocock St., Blackfriars Rd., S.E. ..		—	
Mason Bros. , Brandon St., Leicester		—	Breaker , Leicester
Mason Regulator Co. , Boston, Mass., U.S.A.		—	Masonica , Boston, U.S.A.
Mason W. F., Ltd. , Manchester		6268	Mason , Longsight
1	Massey B. & S. , Openshaw, Manchester	300	Masseys , Openshaw
Mather & Platt , Salford Ironworks, Manchester		—	
2	Maudslay, Sons & Field , Ltd., Lambeth, S.E. Hop	4681	Maudslay , London
3	McInnes T. S., & Co., Ltd. , 42, Clyde Place, Glasgow ..	3979	Indicator , Glasgow
1 2 3 6	McKie & Baxter , Copland Works, Govan, Glasgow	1891	Calidad , Glasgow
1 2 3	McLachlan & Co. , Darlington	—	Railway , Darlington
1 4	McNeal Pipe & Foundry Co. , Land Title Building, Philadelphia, Pa., U.S.A.	1-27-02	McNealpipe , Philadelphia
McNeil C. , Kinning Park Ironworks, Glasgow		1556	Maconnell , Glasgow
1	McOnie A. & P. W. , Cessnock Engine Works, Govan, Glasgow ..	1598	Melada , Glasgow
1 6	McOnie, Harvey & Co., Ltd. , Scotland St. Engine Wks., Glasgow	565	Maconie , Glasgow
Measures Bros. , Ltd., Southwark St., S.E. Hop		4586	Mcasures , London
Meldrum Bros. , 16, Union Court, Old Broad St., E.C.		—	Meldrum , London
Meldrum Bros. , 10, City Rd., Manchester		1674	Meldrum , Manchester
Menzies & Co., Ltd. , Victoria Docks, Leith, N.B.		536	Menzies , Leith
Merryweather & Sons , Ltd., 63, Long Acre, W.C.		—	Merywether , London
Messer & Thorpe , 8, Quality Court, Chancery Lane, W.C. ..		—	
1 2	Metallie Valve Co. , Tower Bldgs., Water St., Liverpool ..	5818	Valve , Liverpool
Metropolitan Railway Carriage Co. , Birmingham		2546	Metro , Birmingham
Mica Lubricant Co. , South Shields		—	Mica , South Shields
Michigan Lubricator Co. , 660-670, Beaubien St., Detroit, Mich., U.S.A.		4692	Lubricator , Detroit
1	Middleton Robt. , Sheepsheep Foundry, Leeds	214	Hydraulic , Leeds
Middleton Robt. , 9, Fenchurch Avenue, E.C.		—	Intensifier , London
Midland Railway Carriage & Wagon Co. , Shrewsbury ..		—	Midland , Shrewsbury
Miller A. & T. , Globe Ironworks, Motherwell		10	Globe , Motherwell
1	Mills James, Exors. of, Bredbury Steel Works, near Stockport	Stockport 7A	Mills , Woodley
1 6	Mirrlees, Watson & Yaryan Co., Ltd. , Scotland St., Glasgow	—	Mirrlees , Glasgow
Mitchell's Emery Wheel Co. , Mill St., Bradford, Manchester		3575	Mitchells , Bradford, Manchester
Moncrieff John , Perth, Scotland		44	Moncrieff , Perth
Moreland R., & Son, Ltd. , 3, Old St., E.C.		6784	Expansion , London
Morse, Williams & Co. , Philadelphia, Pa., U.S.A.		—	
6	Morton Francis, & Co., Ltd. , Hamilton Ironworks, Garston ..	30	Ironsides , Liverpool
1 2	Moseley David, & Sons , Ardwick, Manchester	257	Moseleys , Manchester
Mosses & Mitchell , 68, 69, 70 & 71, Chiswell St., E.C. London Wall		437	Insulator , London
Mount Vernon Iron & Steel Co., Ltd. , Shettleston, Glasgow [Royal 5331		—	Dies , Shettleston
Moura & Wilson , 5, Hospicio St., P.O. Box 596, Rio de Janeiro		—	
Muir Wm., & Co., Ltd. , Sherbourne St., Manchester		529	Britannia , Manchester

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6 Private.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Mumford A. G., Culver St. Ironworks, Colchester	—	Mumford, Colchester
	Murray J., 8, Anderson Quay, Glasgow	3191	Metallic, Glasgow
	Musgrave Bros. , Crown Point Foundry, Leeds	—	Musgrave, 11, East St., Leeds
2	Musgrave John, & Sons, Ltd., Globe Ironworks, Bolton, Lanc. ..	67	Musgrave, Bolton
	Nalder Bros. & Thompson , 34, Queen St., E.C.	Bank 124	Ooclude, London
1 2	Napier Bros. , Ltd., 100, Hyde Park St., Glasgow	714	Windlass, Glasgow
	National Boiler & General Insurance Co. , Ltd., 22, St. Ann's Square, Manchester	1409	National, Manchester
	National Engineering Supply Co. , Ltd., 68, Hyde Park St., Glasgow	—	—
	National Gas Engine Co. , Ltd., Ashton-under-Lyne, Manchester ..	43	National, Ashton-under-Lyne
	Neat Charles, & Co., 112, Queen Victoria St., E.C.	Bank 5510	Napthotic, London
	Negretti & Zambra , 38, Holborn Viaduct, E.C.	Holborn 6583	Negretti, London
1	Nettlefolds Ltd., 16, Broad St., Birmingham	—	Nettlefolds, Birmingham
	Nettlefolds Ltd., London	Holborn 2763	Nettlefolds, London
	Neville Julius G., & Co., Water St., Liverpool	Central, L'pool, 7159	Neville, Liverpool
4	Newark Machine Tool Works , Newark, N.J., U.S.A.	13 B.	Binase, Newark, N.J.
	Newton Machine Tool Works (Incorp.), Philadelphia, U.S.A.	—	Newton, Philadelphia, U.S.A. (Tyne)
1	Nicholson Jos. C., Tool Co. , Newcastle-on-Tyne	1532	Machinery, Newcastle-on-Tyne
1	Niles Tool Works Co. , Hamilton, Ohio, U.S.A.	—	Niles, Hamilton, Ohio
1 2 6	Niles Tool Works Co. , 39, Victoria St., Westminster, S.W. [Westminster 498		Niliacus, London
	Noble & Lund , Felling, near Newcastle-on-Tyne	11023	Lathes, Felling
	Norman John, 131A, St. Vincent St., Glasgow	—	Norman, Glasgow
1	Normand A., & Co., 28, Victoria St., Westminster, S.W. [Westminster 3128		Eyebolts, London
	Normandy's Patent Marine Aerated Fresh Water Co. , Ltd., Victoria Dock Rd., E.	—	Normandy, London
18	Nuttall R. D., Co., Allegheny, Pa., U.S.A.	435	Nuttall, Allegheny, Pa. U.S.A.
	Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.E. ..	—	Oakey, London
	Okes J. C. R., 63, Queen Victoria St., E.C.	—	Oaktree, London
	Oldbury Railway Carriage & Wagon Co. , Ltd., Oldbury Works, near Birmingham	—	—
	Olrick L., & Co., 27, Leadenhall St., E.C.	—	Olrick, London
	Osborn S., & Co., Clyde Steel Works, Sheffield	—	Osborn, Sheffield
1	Owen, Brazil & Holberow , Vulcan Ironworks, Bristol ..	846	Hydraulic, Bristol
	Owens S., & Co., Whitefriars, E.C.	—	Owens, London
	Palatine Engineering Co., Ltd., 10, Blackstock St., Liverpool ..	5936	Waste, Liverpool
	Palfreyman W. H., & Co., 17, Gorse-Piazzas, Liverpool ..	—	Palfreyman, Liverpool
	Parker Foundry Co. , Derby	—	Parker, Derby
	Parsons C. A., & Co., Heaton Works, Newcastle	1618	Turbo, Newcastle-on-Tyne
	Parsons C. A., & Co., 66, Victoria St., S.W.	—	Silently, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's
6 Private. 18 Directory.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
12	Parsons Marine Steam Turbine Co., Ltd., Turbinia Works, Wallsend-on-Tyne	220	Turbinia, Wallsend
	Partridge & Cooper, 191 & 192, Fleet St., & 1 & 2, Chancery Lane, E.C.	Holborn 25	Partridge Cooper, London
	Patent Exhaust Steam Injector Co., Ltd., St. Ann's Square, Manchester	—	Exhaust, Manchester
	Patent Shaft & Axletree Co., Ltd., Wednesbury	6503	Shaft, Wednesbury
1 2 14	Paterson, Cooper & Co., Thistle Works, Paisley	6	Patella, Paisley
	Paterson, Downs & Jardine, Coats Iron and Steel Works, Coatbridge, N.B.	62	Coats, Coatbridge
	Paterson, Downs & Jardine, 36, Lime St., E.C.	—	Troughs, London
	Paul James, & Sons, 386, Paisley Rd., Glasgow	—	
	Pearn F. & Co., Ltd., West Gorton, Manchester	1021	Pumps, Manchester
1	Peckett & Sons, Atlas Engine Works, Bristol	7306	Peckett, Bristol
1	Peebles D. Bruce, & Co., Tay Works, Edinburgh	4244	Peebles, Loith
1	Penman & Co., 377, Dalmarnock Rd., Glasgow	2544	Penman, Glasgow
6	Penney Alexander, & Co., 107, Fenchurch St., E.C.	—	Finitimus, London
	Pfeil & Co., 145-9, St. John St., Clerkenwell, E.C.	Holborn 626	Pfeil, London
	Phillips & Loigh, 22, Southampton Bdg., Chancery Lane, W.C.	Holborn 133	Retnevni, London
	Phoenix Bolt & Nut Co., Handsworth, near Birmingham	2024	Bolts, Birmingham
	Phosphor Bronze Co., Ltd., Sumner St., S.E.	Hop 4557	Phosphor Bronze, London
	Phosphor Bronze Co., Ltd., Birmingham	22	Phosphor, Birmingham
	Phosphor Bronze Co., Liverpool	—	Phosphor, Liverpool
	Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow	—	Pickering, Wishaw
	Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W.	—	Wagonload, London
	Picking, Hopkins & Co., Arnold Works, Bow, E.	—	
1 2	Piggott Thos., & Co., Ltd., Birmingham	86	Atlas, Birmingham
	Piggott Thos., & Co., Ltd., St. Thomas Apostle, E.C.	—	Intersection, London
	Pittsburgh Locomotive Works, Pittsburgh, Pa., U.S.A.	—	
	Platt Samuel, Wednesbury	5518	Platt, Wednesbury
	Player W. & J., Lionel St., Birmingham	1310	Players, Birmingham
1	Plenty & Son, Ltd., Newbury, Berkshire	—	Plenty, Newbury
1 6	Pollock MacNab & Highgate, Shettleston, Glasgow	—	Highgate, Shettleston
	Pollock, Whyte & Waddell, Globe Eng. Works, Johnstone	43	Pollock, Johnstone
1	Pontifex & Wood, Ltd., Union Foundry, Derby	50	Zero, Derby
1	Pontifex & Wood, Ltd., 34, New Bridge St., E.C.	Bank 1981	Ponfex, London
	Poole R., & Son Co., Baltimore, Md., U.S.A.	—	
6	Pooley H., & Son, Albion Foundry, Liverpool	1353	Pooley, Liverpool
	Pott, Cassels & Williamson, Motherwell, nr. Glasgow	[Motherwell 22	Pott, Motherwell
	Pratt Chuck Co., Frankfort, New York, U.S.A.	—	
	Price John, Workington	522	Price, Workington
	Price's Patent Candle Co., Ltd., Belmont Works, Battersea, S.W.	Battersea 91	Belmont, London
	Price's Patent Candle Co., Ltd., Bromborough Pool, L'pool	—	Prices, Birkenhead
	Price's Patent Candle Co., Ltd., 3, Cross St., Manchester	1321	Palmitine, Manchester
1	Priestman Bros., Holderness Foundry, Hull	81	Priestman, Hull
1	Priestman Bros., 73A, Queen Victoria St., E.C.	Bank 1820	Priestman, London

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6 Private. 12 Unicode. 14 Commercial.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Proctor James, Burnley, Lancashire		212	Proctor, Burnley
1 2 3 6	Pulsometer Engineering Co., Ltd., 61 and 63, Queen Victoria St., E.C. Bank	1872	Pulsometer, London
1 2 3 6	Pulsometer Engineering Co., Ltd., 8, York St., Glasgow ..	—	Pulsometer, Glasgow
1 2 3 6	Pulsometer Engineering Co., Ltd., 1, East Parade, Leeds	1925	Pulsometer, Leeds
2 Ragoaine & Co., 7, Idol Lane, E.C. Avenue		11244	Ragoaine, London
1 2	Ransome A., & Co., Ltd., King's Rd., Chelsea, S.W. [Kensington	8578	Ransome, London
1	Ransomes & Rapier, Ltd., 32, Victoria St., S.W. Westminster	568	Ransomes Rapier, Londn.
1	Ransomes & Rapier, Ltd., Waterside Works, Ipswich ..	49	Waterside, Ipswich
1 6	Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich	11	Ransomes, Ipswich
1 6	Ransomes, Sims, & Jefferies, Ltd., 9, Gracechurch St., E.C. Avenue	5776	Anglia, London
Reader E., & Sons, Phoenix Works, Nottingham		414	Readers, Nottingham
Redfern G. F., & Co., 4, South St., Finsbury, E.C. ..		Avenue 691	Invention, London
Redpath & Paris, Lea Cut Ironworks, Limehouse, E. ..		—	Redpath, Limehouse, London
1	Reeves A. R., 46, Queen Victoria St., E.C.	—	[Tyne
Reichwald August, Lombard St., Newcastle-on-Tyne ..		P.O. 699	Reichwald, Newcastle-on-
Reichwald August, 9, New Broad St., E.C. Avenue		1257	Reichwald, London
1 2 6	Reid Wm., & Co., 112, Fenchurch St., E.C. Avenue	351	Reidwill, London [Tyne
1 2 6	Reid Wm., & Co., Newcastle-on-Tyne	1054	Reidwill, Newcastle-on-
1 2 6	Reid Wm., & Co., Liverpool	—	Reidwill, Liverpool
Rhodes B., & Son, 234 & 240, Bow Rd., E.		—	Infusion, London
Rice & Co., Neville Works, Elland Rd., Leeds		—	Press, Leeds
1	Rice Thos. S., 60, Watling St., E.C.	—	Rieto, London
Richards Geo., & Co., Ltd., Broadheath, near Manchester ..		—	Richards, Altrincham
Richardson Thos., & Sons, Ltd., Hartlepool		—	Richardsons, Hartlepool
Richmond Locomotive & Machine Works, Richmond, Va., U.S.A.		—	
1	Robertson & Outram, 28, Victoria St., Westminster, S.W.	[Westminster 3128	Eyebolts, London
Rebey & Co., Ltd., Lincoln		3	Robey, Lincoln
1 2	Robinson T., & Son, Ltd., Rochdale	62	Rebinson, Rochdale
Roger Robt., & Co., Stockton Iron Foundry, Stockton-on-Tees ..		{ 4506 P.O. 19 }	Roger, Stockton-on-Tees
Rogers Locomotive Co., Paterson, New Jersey, U.S.A. ..		—	
Rogerson J., & Co., Ltd., Wolsingham, R.S.O., Co. Durham ..		3058	Steelworks, Wolsingham
1	Roller-Bearings Co., Ltd., 1, Delahay St., Westminster, S.W.	[Westminster 267	Attaching, London
1 5	Repeways Syndicate, Ltd., 150, Leadenhall St., E.C. ..	—	Ropeways, London
1 2 3	Rose, Downs & Thompson, Ltd., Old Foundry, Hull ..	344	Rose, Hull
2	Ross & Duncan, Govan, Glasgow	1510	Whitefield, Glasgow
1	Ross R. G., & Son, Glasgow	2663	Glenroa, Glasgow
Rothermel, Paul, 105, Leadenhall St., E.C.		—	Rothermel, London
Royal Dutch Forge Co., Leiden, Holland		—	
1	Royle J. J., 65, Waterloo St., Glasgow	—	Syphonia, Glasgow
1	Royle J. J., Suffolk House, Laurence Pountney Hill, E.C. ..	—	Syphonia, London
1	Royle J. J., Gt. Bridgewater St., Manchester	594	Elyor, Manchester

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6 Private.

NAME AND ADDRESS OF ADVERTISER.

TELEPHONE
NUMBER.

TELEGRAPHIC ADDRESS.

	Rugby Portland Cement Co. , Rugby	—	Cement , Rugby
	Russell G. , & Co., Motherwell, N.B.	4	Russell , Motherwell
	Russell Jas. , & Sons, Ltd., Crown Tube Works, Wednesbury ..	6502	Russell , Wednesbury
1 2	Russell John , & Co., Ltd., Alma Tube Works, Walsall	6034	Alma , Walsall
1 2 6	Ruston, Proctor & Co. , Ltd., Sheaf Ironworks, Lincoln ..	56	Ruston , Lincoln
	Ryder William, Beehive Works, Bolton	55	Beehive , Bolton
1	Safety Tread Syndicate , Ltd., 15, Barbican, E.C. .. Bank	15365	Dilapidations , London
	Samuelson & Co. , Ltd., Banbury, Oxon	—	Samuelson , Banbury
	Sankey J. H. , & Son, Canning Town, E.	5220	Sankey , Canning Town
	Schäffer & Budenberg , Whitworth St., London Rd., Manchester	899	Manometer , Manchester
	Schäffer & Budenberg , 77A, Queen Victoria St., E.C. ..	—	Pyrometer , London
4	Schenectady Locomotive Wks. , Schenectady, N.Y., U.S.A.	—	Locomotive , Schenectady, U.S.A.
	Schichau F. , Engineer, Elbing-Danzig, Prussia	—	
	Schiele Union Engineering Co. , Ltd., Pollard St., Manchester	989	Schiele , Manchester
1 2 3	Schram R. , & Co., Cannon St. House, E.C.	—	Schram , London
1	Schreiber S. , 8, Victoria Avenue, Bishopsgate St., E.C. . . Avenue	2696	Toughness , London
1	Scott Bros. , West Mount Works, Halifax	—	Scott , Halifax
1	Scott Ernest, & Mountain , Ltd., Close Works, Newcastle-on- Tyne	{ 1259 P.O. 432 }	Esco , Newcastle-on-Tyne
1	Scott Ernest, & Mountain , Ltd., Cloth Hall St., Huddersfield	—	Dynamo , Huddersfield
1	Scott Ernest, & Mountain , Ltd., 20, New Bridge St., Blackfriars	—	Potential , London
1	Scott Ernest, & Mountain , Ltd., Johannesburg, South Africa	—	
1	Scot Geo. , & Son, 44, Christian St., E.	4390	Thirtyfour , London
1	Scott Geo. , & Son, 67, Lord St., Liverpool	5174	Earnest , Liverpool
	Scriven & Co. , Marsh Lane, Leeds	1819	Scriven , Leeds
1	Selig, Sonnenthal & Co. , 85, Queen Victoria St., E.C. ..	—	Selig , London
2 4	Sellers William & Co. (Incorp.), Philadelphia, Penn., U.S.A. ..	—	Sellers , Philadelphia
	Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow	5	Shanks , Johnstone
	Shelton Iron, Steel and Coal Co. , Ltd., Stoke-on-Trent..	11	Shelton , Stoke-on-Trent
	Shelton Iron, Steel and Coal Co. , Ltd., 122, Cannon St., E.C.	Bank 1886	Sheltonian , London
	Shepherd A. , 32, Charing Cross, S.W.	—	
	Shore T. , & Sons, Albion Foundry, Hanley, Staffs. . .	74	Shores , Engineers, Hanley
2 3 5 6	Siemens Brothers & Co. , Ltd., 12, Queen Anne's Gate, Westminster, S.W.	Westminster 3099	Siemens , London
	Simon Henry , Ltd., 20, Mount St., Manchester	1165	Reform , Manchester
11	Simons W. , & Co., Ltd., Renfrew, Scotland	3	Simons , Renfrew
1 3	Simpson, Strickland & Co. , Ltd., Dartmouth, S. Devon ..	—	Engineers , Dartmouth
1	Sinclair George, Albion Boiler Works, Leith, N.B.	537	Sinclair , Leith
	Smedley Bros. , Ltd., Belper, Derbyshire	512	Smedleys , Belper
1 3	Smidth F. L. , & Co., Palace Chambers, 9, Bridge St., West- minster, S.W.	—	Chalkiness , London
	Smit L. , & Zoon, Kinderdijk, near Rotterdam, Holland..	—	Smit-Zoon , Kinderdijk
	Smit P. , Jr., Rotterdam, Holland	—	P. Smit, Jr. , Rotterdam
	Smith A. & W. , & Co., Ltd., Eglinton Engine Works, Glasgow ..	1544	Engine , Glasgow

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 11 Scott's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Smith Brothers & Co. , Hyson Green Works, Nottingham ..	1516	Hyson, Nottingham
1	Smith Brothers & Co. , Kingston Engine Works, Glasgow ..	1652	Planer, Glasgow
	Smith & Co. ntrv, Ltd. , Gresley Ironworks, Ordsal Lane, Manchester { New 1007	564	Gresley, Manchester
	Smith & Grace Screw Boss Pulley Co., Ltd. , Thrapston ..	—	Grace, Thrapston
	Smith Hugh, & Co. , Possil Engine Works, Glasgow	3666	Possil, Glasgow
	Smith S., & Son, Ltd. , 9, Strand, W.C.	—	Smith, 9, Strand, London
	Smith Sydney, & Sons , Basford Brass Works, Nottingham ..	1537	Smiths, Nottingham
	Smith Thos., & Sons , of Saltley, Ltd., Saltley Mill, Birmingham ..	314	Hammers, Birmingham
6	Smith Thomas , Steam Crane Works, Rodley, near Leeds	2018	Smith, Rodley
	Smulders A. F. , Rotterdam, Holland	—	Asmulders, Rotterdam
1	Snowdon, Sons & Co., Ltd. , Millwall, E.C. Eastern 127		Snowdrift, London
1	Société Anonyme des Ateliers de Construction de La Meuse , Liege, Belgium	—	
1	Southwark Manufacturing Co. , 73A, Southwark Bridge Rd., S.E. Hop 94		Loculate, London
	Southwood Jones & Co., Ltd. , Risca, Mon.	—	Southwood, Risca
	Spear & Jackson , Etna Works, Sheffield	1044	Spear, Sheffield
	Spencer John, & Sons, Ltd. , Newburn Steel Works, Newcastle-on-Tyne	—	Newburn, Newcastle-on-Tyne
	Spencer John, & Sons, Ltd. , Ouseburn Wks., Newcastle-on-Tyne ..	—	Tyne, Newcastle-on-Tyne
	Spencer John, & Sons, Ltd. , 139, Cannon St., E.C.	—	Newburn, London
	Spon E. & F. N. , 125, Strand, W.C.	—	
	Spurr, Inman & Co., Ltd. , Railway Ironworks, Wakefield ..	7	Spurinman, Wakefield
2	Stamm W. , 25, College Hill, E.C. Bank 5483		Pyxer, London
	Standard Ammonia Co., Ltd. , Iceland Wharf, Old Ford, E. [Stratford 6065		Carbon, London
6	Stanley W. F. , Great Turnstile, Holborn, W.C. Holborn 2912		Turnstile, London
	Stanley W. F. , Railway Approach, London Bridge, S.E. Hop 4871		
	Stannah J. , 20, Southwark Bridge Rd., S.E.	—	Lifts, London
1 2 3	Steel Company of Scotland , 23, Royal Exchange Sq., Glasgow ..	773	Steel, Glasgow
1	Stern Bros. , 57, Gracechurch St., E.C. Avenue 2888		Centumvir, London
1	Sterne L., & Co., Ltd. , Crown Ironworks, Glasgow	624	Crown, Glasgow
1	Sterne L., & Co., Ltd. , Donington House, Norfolk St., W.C. Gerrard 1989		Elsterne, London
	Steven & Struthers , Brassfounders, Glasgow	3133	Bronze, Glasgow
1 3 5	Stewart A. & J., & Menzies, Ltd. , 41, Oswald St., Glasgow ..	651	Lapweld, Glasgow
1 3 5	Stewart A. & J., & Menzies, Ltd. , Coatbridge	2	Stewart, Coatbridge
	Storey Isaac, & Son , Little Peter St., Manchester	1477	Stork, Manchester
	Stothert & Pitt, Ltd. , Bath	139	Stothert, Bath
	Stothert & Pitt, Ltd. , 30, Walbrook, E.C.	—	Stothert, London
	Sturtevant Engineering Co. , 75, Queen Victoria St., E.C. [Bank 1509		Crosby, London
	Summerscales W., & Sons, Ltd. , Phoenix Foundry, Keighley ..	7292	Phoenix, Keighley
	Sun Fire Office , 63, Threadneedle St., E.C.	—	
	Sykes Henry, Ltd. , 66, Bankside, Southwark, S.E.		
	Taite, Howard & Co., Ltd. , 63, Queen Victoria St., E.C. [Bank 5642		Caulking, London
1	Tandem Smelting Syndicate, Ltd. , Qn. Victoria St., E.C. [Bank 5618		Analyzing, London
6	Tangyes Ltd. , Cornwall Works, Birmingham	1260	Tangyes, Birmingham
6	Tangyes Ltd. , 35, Queen Victoria St., E.C. Bank 1625		Tangyes, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Morseing's.
6 Private. 7 Sell's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
6	Tangyes Ltd. , St. Nicholas Buildidgs, Newcastle-on-Tyne ..	1729	Tangyes, Newcastle
6	Tangyes Ltd. , Deansgate, Manchester	1310	Tangyes, Manchester
6	Tangyes Ltd. , Argyle St., Glasgow	1395	Tangyes, Glasgow
2 4	Tangyes' Machine Tool Co., Ltd. , Oxford W'ks, Birmingham	1260	Tangyes, Birmingham
1	Tattersall A. A. , Mill Hill Tool Works, Blackburn	473	Tattersall, Mill Hill, Blackburn
1	Taylor & Challen, Ltd. , Derwent Foundry, Birmingham ..	4144	Derwent, Birmingham
	Taylor C. , Bartholomew St., Birmingham	401	Lathes, Birmingham
1 6	Taylor & Hubbard, Leicester	575	Lifting, Leicester
1 2	Telegraph Manufacturing Co., Ltd. , Helsby, nr. Warrington	—	Limited, Helsby
1 2	Telegraph Manufacturing Co., Ltd. , 11, Queen Victoria St., E.C.	Bank 1935	Concentric, London
1	Temperley Transporter Co. , 72, Bishopegate St. Within, E.C.	Avenue 2658	Transumo, London
	Thames Bank Iron Co. , Upper Ground St., S.E. Hop 4763		Hotwater, London
	Thames Ironworks & Shipbuilding Co., Ltd. , Blackwall, E.	Eastern 48	Thames, London
	Thompson & Co. , Victoria Works, Tamworth, Staffs. ..	—	Thompson & Co., Tamworth
6	Thompson John , Ettingshall, Wolverhampton	—	Boiler, Wolverhampton
	Thomson W. R. M., & Co. , 96, Buchanan St., Glasgow	829	Inventions, Glasgow
	Thornton-Pickard Manufacturing Co., Ltd. , Altrincham	69	Thornton-Pickard, Broad-leath
	Thornton A. G. , 67, St. Mary St., Manchester	3273	Drawing, Manchester
	Thornycroft J. I., & Co. , Church Wharf, Chiswick, W. [Hammersmith 7306		Thornycroft, London
1 2 3	Thwaites Bros., Ltd. , Bradford, Yorkshire	325	Thwaites, Bradford
	Tinker, Shenton & Co. , Hyde, near Manchester	21	Duplex, Hyde
	Tittley Henry, & Son , Alton Works, Smethwick, Birmingham ..	—	Tittley, Smethwick
	Tolch & Co. , The Boatyard, Fulham, S.W.	—	Tolch, London
	Tomey Joseph, & Sons, Ltd. , Manor Glass Wks., Aston, Birmingham	—	Tomey, Aston, Birmingham
	Toope's Asbestos Covering Co., Ltd. , Stepney Sq., Stepney, E.	—	Toopes, London [Tyne
	Toward T., & Co. , Ouseburn, Newcastle-on-Tyne	6515	Toward, Newcastle-on-
	Treasure J. B., & Co. , 8, Vauxhall Rd., Liverpool	1529	Treasure, Liverpool
1 13	Trewent F. J. , 43, Billiter Buildings, Billiter St., E.C. .. Avenue 11121		Trewent, London
	Trier Bros. , 1, Great George St., Westminster, S.W.	—	Viscosity, London
	Tubes, Ltd. , Birmingham	2582	Cylinders, Birmingham
	Tuck & Co., Ltd. , 116, Cannon St., E.C.	Bank 15083	Tucks, London
	Tuck & Co., Ltd. , 13, Aston's Quay, Dublin	575	Tucks, Dublin
	Tullis D. & J., Ltd. , Kilbowie Ironworks, near Glasgow ..	—	Tullis, Clydebank
	Tullis D. & J., Ltd. , 52, Queen Victoria St., E.C.	—	Kilbowie, London
1 2	Tullis John, & Son , St. Ann's Leather Works, Glasgow ..	2520	Tullis, Glasgow
	Turnbull Alex., & Co. , Bishopbriggs, Glasgow	1270	Valve, Bishopbriggs
1 3 6	Turner E. R. & F., Ltd. , 82, Mark Lane, E.C.	—	Canvassers, London
1 3 6	Turner E. R. & F., Ltd. (132), Ipswich	24	Gippeawyk, Ipswich
	Turton T., & Sons, Ltd. , Sheaf Works, Sheffield	1062	Turtons, Sheffield
2 6	Unbreakable Pulley & Mill Gearing Co., Ltd. , 56, Cannon St., E.C.	Bank 4452	Horsepower, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 13 Watkins'.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
2 6	Unbreakable Pulley & Mill Gearing Co., Ltd., West Gorton, Manchester	52	Strength, Manchester
1 6	United Alkali Co., Ltd., Exchange Buildings, Liverpool	1185	Ubique, Liverpool
	United Flexible Metallic Tubing Co., Ltd., 112, Queen Victoria St., E.C.	Bank 1773	Tuyaux, London
	United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd., 14, Cook St., Liverpool	1030	Isham, Liverpool
	United States Metallic Packing Co., Ltd., Soho Works, Thornton Rd., Bradford	604	Metallic, Bradford
5	Universal Water Meter Co., Ltd., 36-38, Arlington St., N.	—	Brookmint, London
4	Vacuum Oil Co., Albany Buildings, Victoria St., Westminster, S.W.	Westminster 274	Vacuum, London
	Vaughan & Son, 57, Chancery Lane, W.C.	—	
1 2	Vauxhall Ironworks Co., Ltd., Wandsworth Rd., S.W.	Hop 274	Wellhole, London
2	Vickers Sons & Maxim, Ltd., River Don Works, Sheffield	308	Vickers, Sheffield
2	Vickers Sons & Maxim, Ltd., 23, Victoria St., Westminster, S.W.	—	Vickers, London
	Von der Heyde J. Bennett, 6, Brown St., Manchester	1364	Vonder, Manchester
1	Vosper & Co., Ltd., Broad St., Portsmouth	569	Repsov, Portsmouth
	Vulcan Boiler and General Insurance Co., Ltd., 67, King St., Manchester	1188	Boiler, Manchester
	Walles, Dove & Co., Ltd., Newcastle-on-Tyne	{ 1122 } { P.O. 618 }	Bitumastic, Newcastle-on-Tyne
	Walles George, & Co., 258, Euston Rd., N.W.	—	Walles, Euston Rd., Lndn.
1 2 5	Walker Bros., Pagefield Ironworks, Wigan	14	Pagefield, Wigan
1	Wallach Bros., 57, Gracechurch St., E.C.	Avenue 2888	Hammerman, London
	Wallwork Henry, & Co., Charter St., Manchester	567	Foundry, Manchester
	Ward H. W., & Co., Lionel St., Birmingham	1469	Tudor, Birmingham
	Warner Robert, & Co., 97, Queen Victoria St., E.C.	—	Hydrological, London
	Warner Robert, & Co., Walton-on-the-Naze	—	Foundry, Walton-on-Naze
	Warrington Wire Rope Works, Ltd., Liverpool	2037	Wirop, Liverpool
	Washington Chemical Co., Ltd. Washington, R.S.O., Co. } Durham	1373 {	Chemical, Washington Station
	Water Softening & Purifying United Patents, Ltd., 30 & 31, St. Swithin's Lane, E.C.	Bank 5704	Diluteness, London
	Watson Henry, & Sons, High Bridge Works, Newcastle-on-Tyne	—	Watsons, Newcastle
	Watt James & Co., Soho Foundry, Birmingham	2043	Watt, Soho, Smethwick
	Waygood R., & Co., Ltd., Falmouth Rd., S.E.	Hop 4760	Waygood, London
	Weardale Iron & Coal Co., Ltd., Upper Thames St., E.C. [Bank 1832		Weardale, London
	Weardale Iron & Coal Co., Ltd., Manchester	—	Weardale, Manchester
	Weardale Iron & Coal Co., Ltd., Newcastle	1065	Weardale, Newcastle
	Weardale Iron & Coal Co., Ltd., Spennymoor Durham	P.O. 1	Weardale, Spennymoor
1	Webb & Son, Combs Tannery, Stowmarket	—	Webb, Combs
1	Webster & Bennett, Coventry	221	Profile, Coventry
1 11	Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow	3223	Giweir, Glasgow [many
	Weise & Monaki, Halle (Saale), Germany	—	Weisens, Hallesaaale, Ger-

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 11 Scott's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Weldless Steel Tube Co. , 303, Icknield Port Rd., Birm'ham		275	Weldless, Birmingham
Wellman-Seaver Engineering Co. , Cleveland, Ohio, U.S.A.		—	
Wellman-Seaver Engineering Co. , 47, Victoria St., Westminster, S.W.		—	
1	Wells A. C., & Co. , 103, Midland Rd., St. Pancras, N.W.	King's Cross 341	Unbreakable, London
1	Wells A. C., & Co. , Carnarvon St., Cheetham, Manchester	1244	Unbreakable, Manchester
Werner, Pfleiderer & Perkins, Ltd. , 117, Queen Victoria St., E.C.		—	Arktos, London
Westinghouse Brake Co. , Canal Rd., King's Cross, N. (King's Cross 620			Westinghouse, London
Westinghouse Electric Co., Ltd. , 32, Victoria St., Westminster, S.W.		Westminster 3176	Mobilized, London
1 2 6	Wheeler Condenser & Engineering Co., Ltd. , 179, Queen Victoria St., E.C.	Bank 5087	Suspend, London
Whittaker Bros., Ltd. , Horsforth, near Leeds		2321	Quarries, Leeds
White J. S., & Co., Ltd. , Medina Dock, Cowes		4	Medina, Cowes
1 3	Whitmore & Binyon , 64, Mark Lane, E.C.	—	Accelerate, London
1 3	Whitmore & Binyon , Wickham Market	—	Works, Wickham Market
Whittaker & Co. , Paternoster Square, E.C.		—	
Whittaker Wm., & Sons , Oldham		.83	
Widdowson John H. , Ordsall Lane, Salford, Manchester		—	Taps, Salford
Wiggins F., & Sons , 10, Tower Hill, & 102 & 133, Minories, E.C. (Avenue		2248	Wiggins, Minories, London
Wilkinson G., & Sons , Bradford Rd. Tool Works, Keighley		—	Wilkinsons, Engineers, Keighley
Wilkinson J., & Sons , Saltley, Birmingham		—	Syenite, Birmingham
1	Wilks, Sloan & Co. , 112, Bath St., Glasgow	53	Hieracio, Glasgow
1 2 3 6	Willans & Robinson, Ltd. , Rugby, Warwickshire	27	Willans, Rugby
1	Willcox W. H., & Co., Ltd. , 23, Southwark St., S.E.	Hop 740	Willcox, Southwark St., London
Willesden Paper & Canvas Works , Willesden Junction, N.W.		—	
1	Wilson John H., & Co., Ltd. , Sandhills, Liverpool	Bootle 4	Engineers, Liverpool
1	Wilson John H., & Co., Ltd. , 15, Victoria St., Westminster, S.W.	—	Drague, London
Winter F., & Sons , Redcross St., E.C.		—	Instantly, London
1 2	Witty & Wyatt, Ltd. , 83, Leadenhall St., E.C.	Avenue 4104	Witwy, London
Wood Chas. , Tees Iron Works, Middlesbrough-on-Tees		{ 5031 P.O. 7 }	
1 4	Wood R. D., & Co. , Philadelphia, U.S.A.	1835	Tuckahoe, Philadelphia
Woodhouse & Rixson , Attercliffe, Sheffield		—	Rixson, Sheffield
1	Woodite Works , Mitcham Common, Surrey	—	Woodite, Mitcham
1 2 4	Worthington Pumping Engine Co. , 153, Queen Victoria St., E.C.	Bank 1614	Pumping, London
6	Wright Jos., & Co. , Tipton, Staffordshire	—	Wright, Tipton
Yarrow & Co., Ltd. , Isle of Dogs, Poplar, E.		Eastern 5114	Yarrow, London
1 2	Yates & Thom , Blackburn, Lancashire	43	Yates, Blackburn
Yost Typewriter Co., Ltd. , 50, Holborn Viaduct, E.C.		6711	Writers, London
1 2	Young H., & Co., Ltd. , Eccleston Ironworks, Pimlico and Hayle Foundry Wharf, Nine Elms, S.W.	{ Westminster 3067 }	Young, Engineers, Pimlico, London

Telegraphic Codes in use: 1 A.B.C. 2 A.1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private.

KEY TO TELEGRAPHIC ADDRESSES.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Abbot, Gateshead	Abbot John, & Co., Ltd. , Park Works, Gateshead-on-Tyne
Abbott, Newark	Abbott & Co. (Newark), Ltd., Newark-on-Trent
Abyssinian, London	Le Grand & Sutcliffe , 125, Bunhill Row, E.C.
Accelerate, London	Whitmore & Binyon , 64, Mark Lane, E.C.
Achilles, Glasgow	London Bros. , Clyde Engineering Works, Johnstone, N.B.
Adamant, Glasgow	Adam J. M., & Scott , Ibrox Iron Works, Glasgow
Adopted, London	Grover & Co., Ltd. , Wharf Rd., City Rd., N.
Alighting, London	Koppel Arthur , Peninsular House, Monument St., E.C.
Allen, Sheffield	Allen Edgar, & Co., Ltd. , Imperial Steel Works, Sheffield
Alley, Glasgow	Alley & Maclellan , Sentinel Works, Glasgow
Allis, Milwaukee, Wis.	Allis Edward P., Co. , Milwaukee, Wis., U.S.A.
Alma, Walsall	Russell John, & Co., Ltd. , Alma Tube Works, Walsall
Analyzing, London	Tandem Smelting Syndicate , Ltd., Queen Victoria St., E.C.
Anderton, Boiler, Church	Anderton A., & Sons , Antley Boiler Works, Accrington
Anglia, London	Ransomes, Sims, & Jefferies , Ltd., 9, Gracechurch St., E.C.
Anticorrosive, Glasgow	British Boiler Cleaning & Enamelling Co. , 201, Stobcross St., Glasgow
Archdale, Birmingham	Archdale Jas., & Co. , Manchester Works, Ledsam St., Birmingham
Arktos, London	Werner, Pfeiderer & Perkins , Ltd., 117, Queen Victoria St., E.C.
Armstrongs, Birmingham	Armstrong, Stevens & Son , Whittall St., Birmingham
Asbestos, London	Asbestos Co., Ltd. (The United) , Dock House, Billiter St., E.C.
Ashburys, Manchester	Ashbury Railway Carriage Co. , Openshaw, Manchester
Asmolders, Rotterdam	Smulders A. F. , Rotterdam, Holland
Askham, Sheffield	Askham Bros. & Wilson , Ltd., Sheffield
Asteroidal, London	British Thomson-Houston Co., Ltd. , 83, Cannon St., E.C.
Atlas, Birmingham	Piggott Thos., & Co., Ltd. , Birmingham
Atlas, Gloucester	Fielding & Platt , Ltd., Gloucester
Atlas Works, Levenshulme	Atlas Engineering Co. , Levenshulme, Manchester
Atlas, Sheffield	Brown John, & Co., Ltd. , Sheffield
Attaching, London	Reller-Bearings Co. , Ltd., 1, Delahay St., Westminster, S.W.
Auto, Coventry	Auto Machinery Co. , Ltd., Coventry
Avery, Birmingham	Avery W. & T., Ltd. , Soho Foundry, Birmingham
Bagnall, Stafford	Bagnall W. G., Ltd. , Castle Engine Works, Stafford
Bagshaw, Batley	Bagshaw J., & Sons, Ltd. , Batley, Yorkshire
Baker, Optician, London	Baker C. , 244, High Holborn, W.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Baldwin, Philadelphia	Burnham, Williams & Co. , Philadelphia, U.S.A.
Battery, Selly Oak	Birmingham Battery & Metal Co. , Ltd., Birmingham
Bayley, Sheffield	Brown, Bayley's Steel Works , Ltd., Sheffield
Beacon, Salford	Bailey W. H., & Co. , Ltd., Albion Works, Salford, Manchester
Beardmore, Glasgow	Beardmore William, & Co. , Parkhead Forge, Rolling Mills, and Steel Works, Glasgow
Beardshaw, Sheffield	Beardshaw J., & Son , Ltd., Baltic Steel Works, Sheffield
Beehive, Bolton	Ryder William , Beehive Works, Bolton
Belfry, London	Asbestos Co. , Ltd. (Bell's), 594, Southwark St., S.E.
Bellamy, London	Bellamy John , Millwall, E.
Belliss, Birmingham	Belliss G. E., & Co. , Ledsam St. Works, Birmingham
Belmont, London	Price's Patent Candle Co. , Ltd., Battersea, S.W.
Bement, Philadelphia	Bement, Miles & Co. , Philadelphia, Pa., U.S.A.
Berrys, Sowerby Bridge	Berry F., & Son , Sowerby Bridge, Yorkshire
Bessemer, Leeds	Leeds Steel Works , Ltd., Leeds
Bessemer, Sheffield	Bessemer Henry, & Co. , Ltd., Sheffield
Bickford, Camborne	Bickford Burners Co. , Camborne, Cornwall
Bifurcated, London	Bifurcated Rivet Co. , Ltd., 10, Wool Exchange, E.C.
Binse, Newark, N.J.	Newark Machine Tool Works , Newark, N.J., U.S.A.
Bird, London	Bolling & Lowe , 2, Laurence Pountney Hill, E.C.
Bitumastic, Newcastle-on-Tyne	Wallis, Dove & Co. , Ltd., Newcastle-on-Tyne
Blackburn, Nottingham	Blackburn, Starling & Co. , Ltd., 39, Arkwright St., Nottingham
Blackman, Leeds	Blackman Ventilating Co. , Ltd., 27, Victoria Square, Leeds
Blazen, Glasgow	Blair, Campbell & McLean , Scotland St. Copper Works, Glasgow
Blenheim, London	Henry Rifled Barrel Engineering & Small Arms Co. , Ltd., Eagle Wharf Rd., N.
Bodley, Exeter	Bodley Bros. & Co. , Old Quay Foundry, Exeter
Boiler, Manchester	Vulcan Boiler and General Insurance Co. , Ltd., 67, King St.,
Boiler, Wolverhampton	Thompson John , Ettingshall, Wolverhampton [Manchester
Boilers, Halifax	Hartley & Sugden , Ltd., Halifax
Bolts, Birmingham	Phoenix Bolt & Nut Co. , Handsworth, near Birmingham
Bonaccord, Glasgow	Drysdale & Co. , Bon Accord Engine Works, Glasgow
Bow, Paisley	Bow, McLachlan & Co. , Thistle Works, Paisley
Bradford, London	Bradford Thos., & Co. , 140 to 143, High Holborn, W.C.
Braithwaite, Kendal	Braithwaite Isaac, & Son , Kendal
Brake, Manchester	Gresham & Craven , Ltd., Salford, Manchester
Brattice, Cardiff	Evans & Widowfield , 5, Bute Crescent, Cardiff
Breaker, Leicester	Mason Bros. , Brandon St., Leicester
Britannia, Colchester	Britannia Co. , Colchester
Britannia, Manchester	Muir Wm., & Co. , Ltd., Sherbourne St., Manchester
British, Birmingham	British Tube Co. , Ltd., Birmingham
Broadbent, Huddersfield	Broadbent Thos., & Sons , Ltd., Chapel Hill, Huddersfield
Bronze, Glasgow	Steven & Struthers , Brassfounders, Glasgow
Bronze, Longport	Billington & Newton , Longport, Stoke-on-Trent
Brooke, Lowestoft	Brooke J. W., & Co. , Adrian Ironworks, Lowestoft
Brookmint, London	Universal Water Meter Co. , Ltd., 36-38, Arlington St., N.
Brooks, Dunkirk, U.S.A.	Brooks Locomotive Works , Dunkirk, N.Y., U.S.A.
Brotherhood, London	Brotherhood Peter , Belvedere Rd., Lambeth, S.E. [Ohio, U.S.A.
Brownhoist, Cleveland, U.S.A.	Brown Hoisting and Conveying Machine Co. , Cleveland,
Buccula, London	Boby William , 16, Union Court, Old Broad St., E.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Bullard, Bridgeport, U.S.A.	Bullard Machine Tool Co. , Bridgeport, Conn., U.S.A.
Burnet, Glasgow	Burnet Lindsay, & Co. , Moor Park Boiler Works, Govan, Glasgow
Burrell, Thetford	Burrell Chas., & Sons, Ltd. , St. Nicholas Works, Thetford, Norfolk
Butler, Halifax, England	Butler J., & Co. , Victoria Ironworks, Halifax
Butters, Glasgow	Butters Bros. & Co. , 20, Waterloo St., Glasgow
Cables, Old Charlton	Johnson & Phillips' Electric Cable Works , Old Charlton,
Calidad, Glasgow	McKie & Baxter , Copland Works, Govan, Glasgow [Kent
California, Stoke-on-Trent	Kerr, Stuart & Co., Ltd. , Stoke-on-Trent
Cammell, Sheffield	Cammell Charles, & Co., Ltd. , Cyclops Steel and Iron Works, Sheffield
Canvassers, London	Turner E. R. & F., Ltd. , 82, Mark Lane, E.C.
Carbon, London	Standard Ammonia Co., Ltd. , Old Ford, E.
Cartoons, London	Cock Robt. J., & Hammond , 2 & 3, Tothill St., Westminster, S.W.
Caulking, London	Taite, Howard & Co., Ltd. , 63, Queen Victoria St., E.C.
Cement, Rugby	Rugby Portland Cement Co. , Rugby
Cementum, London	Francis & Co., Ltd. , 4, Eastcheap, E.C.
Central, West Hartlepool	Central Marine Engine Works , West Hartlepool
Centrum, London	Kittel & Co., Ltd. , London
Centumvir, London	Stern Bros. , 57, Gracechurch St., E.C.
Chadburn, Liverpool	Chadburn's (Ship) Telegraph Co. , 11, Waterloo Rd., Liverpool
Chalkiness, London	Smidth F. L., & Co. , Palace Chambers, 9, Bridge St., Westminster, S.W.
Chaplin, Glasgow	Chaplin Alex., & Co. , Govan, Glasgow
Chatwin, Birmingham	Chatwin Thos. , Great Tindal St., Birmingham. [Durham
Chemical, Washington Statn.	Washington Chemical Co., Ltd. , Washington, R.S.O., Co.
Cherry, Beverley	Cherry John, & Sons , Pump Works, Beverley, Yorks. [near Antwerp
Chescant, Hoboken-Anvers	Detombay, Delange & Cie. , Engineering Works, Hoboken,
ClaytonShuttleworth,London	Clayton & Shuttleworth , 95, Queen Victoria St., E.C.
Claytons, Lincoln	Clayton & Shuttleworth , Lincoln
Cleavage, London	Becker R., & Co. , 50A, Rivington St., Curtain Rd., E.C.
Clench, Chesterfield	Clench & Co., Ltd. , Lincoln Works, Chesterfield
Clyne, Birmingham	Cleveland Machine Screw Co. , 25, Albert St., Dale End, B'mingham
Coats, Coatbridge	Paterson, Downs & Jardine , Coats Iron and Steel Works, Coat- bridge, N.B.
Cochrane, Barrhead	Cochrane John , Barrhead, N.B.
Coltmans, Loughborough	Coltman H., & Sons , Midland Ironworks, Loughborough
Colville, London	Colville David, & Sons, Ltd. , 3, Fenchurch Avenue, E.C. [Glasgow
Colville, Motherwell	Colville David, & Sons, Ltd. , Dalzell Steel & Iron Wks., Motherwell, nr.
Compact, Birmingham	Jones & Lamson Machine Co. , Exchange Buildings, Stephenson
Compactum, London	Kirkaldy John, Ltd. , 101, Leadenhall St., E.C. [Place, Birmingham
Company, Ebbw Vale	Ebbw Vale Steel, Iron & Coal Co., Ltd. , Mon., South Wales
Composition, Birmingham	Aston Chemical Co. , Birmingham
Compondum, Manchester	Holmes J. H., & Co. , Examiner Buildings, Strutt St., Manchester
Concentric, London	Telegraph Manufacturing Co., Ltd. , 11, Queen Victoria St., E.C.
Conical, Glasgow	Lindsay R. B., & Co. , 43, Mair St., Plantation, Glasgow
Conquest, Luton	Clark's Engineering & Machine Tool Co., Ltd. , Luton, Beds
Constant, Manchester	Litholine Co. , 31, Whitworth St., Manchester
Conveyor, Accrington	Conveyor & Elevator Co. , Accrington, Lancashire
Cook, Glasgow	Crow, Harvey & Co. , Park Grove Iron Works, Glasgow
Copper Co., Glasgow	Broughton Copper Co., Ltd. , Glasgow
Copper Co., London	Broughton Copper Co., Ltd. , London

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Copper Co., Manchester	Broughton Copper Co., Ltd., Manchester
Cosgrove, London	Dell Wm. R., & Son, 26, Mark Lane, E.C.
Coulthards, Preston	Coulthard T., & Co., Preston
Coupling, Manchester	Bridge D., & Co., King St. Engine Works, Salford Manchester
Cowlshaw, Etruria, Stoke-on-Trent	Cowlshaw, Walker & Co., Ltd., Etruria, Stoke-on-Trent
Craddock, Wakefield	Craddock Geo., & Co., Wire Rope Works, Wakefield
Craig-Donald, Johnstone	Craig & Donald, Johnstone, Renfrewshire, N.B.
Craig, Paisley	Craig A. F., & Co., Ltd., Paisley
Cranes, Bedford	Bedford Engineering Co., Bedford
Cranes, Rodley	Booth Joseph, & Bros., Rodley, Leeds
Craven, Wakefield	Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield
Cromil, Newcastle-on-Tyne	Crosier, Stephens & Co., 2, Collingwood St., Newcastle-on-Tyne
Crompton, Chelmsford	Crompton & Co., Ltd., Arc Works, Chelmsford
Crompton, London	Crompton & Co., Ltd., Mansion House Buildings, E.C.
Crosby, London	Crosby Steam Gage & Valve Co., 75, Queen Victoria St., E.C.
Crosby, London	Sturtevant Engineering Co., 75, Queen Victoria St., E.C.
Crossleys, Openshaw	Crossley Bros. Ltd., Openshaw, Manchester
Crown, Glasgow	Sterne L., & Co., Ltd., Crown Ironworks, Glasgow
Cryolite, London	British Aluminium Co., Ltd., 9, Victoria St., Westminster, S.W.
Cundall, Shipley	Cundall R., & Sons, Ltd., Shipley, Yorks
Current, Manchester	Dorman & Smith, Salford, Manchester
Curtis, Bridgeport, U.S.A.	Curtis & Curtis, 10, Garden St., Bridgeport, Conn., U.S.A
Cyclops, Gateshead	Clarke, Chapman & Co., Ltd., Gateshead-upon-Tyne
Cylinders, Birmingham	Tubes, Ltd., Birmingham
Daniell, Birmingham	Daniell S. A., Ltd., Edward St. Parade, Birmingham
Darby, Coalbrookdale	Coalbrookdale Co., Ltd., Coalbrookdale, R.S.O., Shropshire
Day Summers, Southampton	Day, Summers & Co., Northam Ironworks, Southampton
Debergue, Manchester	De Bergue & Co., Ltd., Strangeways Iron Works, Manchester
Dellburn, Motherwell	Marshall, Fleming & Jack, Motherwell, N.B.
Delta, London	Delta Metal Co., Ltd., 110, Cannon St., E.C.
Democracy, London	Beardshaw J., & Son, Ltd., 118, Cannon St., E.C.
Dempster, Glasgow	Dempster, Moore & Co., 49, Robertson St., Glasgow
Derwent, Birmingham	Taylor & Challen, Ltd., Derwent Foundry, Birmingham
Deskwork, London	Davey Arthur J., 122, Cannon St., E.C.
Diagram, Liverpool	Hughes & Lancaster, Liverpool
Dicker, London	Dick, Kerr & Co., Ltd., 110, Cannon St., E.C.
Dies, Shettleston	Mount Vernon Iron & Steel Co., Shettleston, Glasgow
Dilapidations, London	Safety Tread Syndicate, Ltd., 15, Barbican, E.C.
Diluteness, London	Water Softening & Purifying United Patents, Ltd., 30 & 31 St. Swithin's Lane, E.C.
Disc, Liverpool	Higginbottom & Co., Ltd., Seel St., Liverpool
Distend, London	Expanded Metal Co., Ltd., 39, Upper Thames St., E.C.
Dodman, King's Lynn	Dodman Alfred & Co., Ltd., Highgate Works, King's Lynn
Donald, Paisley	Hanna, Donald & Wilson, Abercorn Foundry, Paisley
Denkin Company, London	Donkin Bryan, & Co., Ltd., Southwark Park Rd., S.E.
Dorman, Middlesbrough	Dorman, Long & Co., Ltd., Middlesbrough
Dorman, 19, Victoria Street, Westminster	Dorman, Long & Co., Ltd., 19, Victoria St., Westminster, S.W.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Douglas, Kirkcaldy	Douglas & Grant , Dunnikier Foundry, Kirkcaldy, N.B.
Doulton, London	Doulton & Co. , Ltd., Lambeth
Drague, London	Wilson John H., & Co., Ltd., 15, Victoria St., Westminster, S.W.
Drawing, Manchester	Thornton A. G., 67, St. Mary St., Manchester
Drier, Manchester	Blackman Ventilating Co. , Ltd., 3 & 5, Todd St., Manchester
Duplex, Hyde	Tinker, Shenton & Co. , Hyde, near Manchester
Dynamo, Huddersfield	Scott Ernest, & Mountain , Ltd., Lancaster Yard, Cloth Hall St.,
Dynamo, Oldham	Hall J. P., & Co., Oldham [Huddersfield]
Earnest, Liverpool	Scott Geo., & Son, 67, Lord St., Liverpool [Queen St., Cheapside, E.C.]
Ediswan, London	Edison & Swan United Electric Light Co. , Ltd., 36 & 37,
Edmeston, Adelphi, Salford ..	Edmeston A., & Sons, Cannon St. Ironworks, Salford
Effectible, London	Helicoid Locknut Patents (Parent) Co. , Ltd., 147, Dashwood House, New Broad St., E.C.
Efficiency, London	Leroy F., & Co., Gray St., Commercial Rd., E.
Elivas, Sheffield	Baker Blower Engineering Co. , Stanley Works, Sheffield
Elliot Company, Cardiff	Elliot George, & Co., Cardiff
Elliot Company, London	Elliot George, & Co., 16, Great George St., Westminster, S.W.
Ellison, Irlams-o'-th'-Height ..	Ellison W. T., & Co., Ltd., Irlams-o'-th'-Height, Manchester
Elsterne, London	Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C.
Elyor, Manchester	Royle J. J., Gt. Bridgewater St., Manchester
Emery, London	Davies W. J., & Sons, 109, Weston St., S.E.
Emery, Broadheath	Luke & Spencer , Ltd., Broadheath, near Manchester
Endeavour, London	Birch John, & Co., Ltd., 10 & 11, Queen St. Place, E.C.
Engelbert, London	Engelbert & Co. , 44-47, Bishopsgate St., E.C.
Engine, Glasgow	Smith A. & W., & Co., Ltd., Eglinton Engine Works, Glasgow
Engine, Leeds	Hunslet Engine Co. , Leeds
Engine, London	Marshall, Sons & Co. , Ltd., 79, Farringdon Rd., E.C.
Engineering, Keighley	Keighley Engineering Co. , Waddington St., Keighley
Engineering, London	"Engineering," 35 & 36, Bedford St., Strand, W.C.
Engineers, Dartmouth	Simpson, Strickland & Co. , Ltd., Dartmouth, S. Devon
Engineers, Liverpool	Wilson John H., & Co., Ltd., Sandhills, Liverpool
Epa, London	Alexander E. P., 36, Southampton Buildings, W.C.
Erithus, London	American Blower Co. , 70, Gracechurch St., E.C.
Eseo, Newcastle-on-Tyne	Scott Ernest, & Mountain , Ltd., Close Wks., Newcastle-on-Tyne
Esluh, Manchester	Hulse & Co. , Ltd., Ordsal Works, Salford, Manchester
Etna, Leith	Davis & Primrose , Bangor Rd., Leith, N.B.
Eveson, Birmingham	Eveson Coal and Coke Co. , Ltd., Birmingham [Manchester]
Exhaust, Manchester	Patent Exhaust Steam Injector Co. , Ltd., St. Ann's Square,
Exhausters, London	Lloyd & Davis , 64, Sumner St., S.E.
Expansion, London	Moreland R., & Son, Ltd., 3, Old St., E.C.
Expansion, West Hartlepool ..	Expanded Metal Co. , Ltd., Stanton Works, West Hartlepool
Eyebolts, London	Normand A., & Co., 28, Victoria St., Westminster, S.W.
Eyebolts, London	Robertson & Outram , 28, Victoria St., Westminster, S.W.
Fairbanks, London	Fairbanks Co. , 16, Great Eastern St., E.C.
Fairley, Birmingham	Fairley James, & Sons, Old Mint, Shadwell St., Birmingham
Farnley, Leeds	Farnley Iron Co. , Ltd., near Leeds
Fencing, Brierley Hill	Hill & Smith , Brierley Hill Ironworks, near Dudley
Fencing, Dublin	Hill & Smith , Dublin

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Fencing, Glasgow	Hill & Smith, Glasgow
Fencing, London	Hill & Smith, 118, Queen Victoria St., E.C.
Findlay, Motherwell	Findlay Alexander, & Co., Motherwell, N.B.
Finitimus, London	Penney Alexander, & Co., 107, Fenchurch St., E.C.
Firth, Sheffield	Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield
Fleming, Halifax	Fleming, Birkby & Goodall, Ltd., West Grove Mills, Halifax
Flues, Leeds	Deighton's Patent Flue & Tube Co., Ltd., Vulcan Works Pepper Rd., Leeds
Foliosus, London	Bristowe L. Hugh, & Co., Ltd., Albany Buildings, 47, Victoria St., S.W.
Footpost, London	Foot R. G., & Co., 12, Great St. Thomas Apostle, E.C.
Forestiere, London	Forreest & Son, Ltd., 101, Leadenhall St., E.C.
Forreest, Wyvenhoe	Forreest & Son, Ltd., Wyvenhoe, Essex
Forge, Chapel-en-le-Frith ..	Horsfield Ralph, & Co., Chapel-en-le-Frith, Derbyshire
Forge, Darlington	Darlington Forge Co., Ltd., Darlington
Forge, Dumbarton	Dennystown Forge Co., Dumbarton
Forge, Kirkstall	Kirkstall Forge Co., Leeds
Foster, Lincoln	Foster Wm., & Co., Ltd., Wellington Foundry, Lincoln
Foundry, Dobcross	Hutchinson, Hollingworth & Co., Ltd., Dobcross Loom Works,
Foundry, Manchester	Wallwork Henry, & Co., Charter St., Manchester [Dobcross
Foundry, Walton-on-Naze ..	Warner Robert, & Co., Walton-on-the-Naze
Fowler, Leeds	Fowler John, & Co. (Leeds), Ltd., Steam Plough Works, Leeds
Fox, Deepcar	Fox Samuel, & Co. Ltd., Stocksbridge Works, near Sheffield
Fraser, Engineer, London ..	Fraser W. J., & Co., 98, Commercial Rd. East, E.
Fredennis, London	Dennis W. F., & Co., 23, Billiter St., E.C.
Frictionless, London	Anti-Attrition Metal Co., Ltd., Emerson St., Southwark, S.E.
Fuller Horsey, London	Fuller, Horsey, Sons & Cassell, 11, Billiter Square, E.C.
Furnaces, London	Ebbw Vale Steel, Iron & Coal Co., Ltd., 122, Cannon St., E.C.
 Galloway, Manchester	 Galloways Limited, Manchester
Gandy Belt, Glasgow	Gandy Belt Mfg. Co., Ltd., 33, Queen St., Glasgow
Gandy Belt, Manchester ..	Gandy Belt Mfg. Co., Ltd., 3c, Guardian Bldgs., Cross St., M'chester
Gandy, Birkenhead	Gandy Belt Mfg. Co., Ltd., Wheatland Wks., Seacombe, Cheshire
Gandy, London	Gandy Belt Mfg. Co., Ltd., 97, Queen Victoria St., E.C.
Garrett, Leiston	Garrett R., & Sons, Ltd., Leiston Works, Suffolk
Gaseous, London	Dowson Economic Gas & Power Co., Ltd., 39, Old Queen St. Westminster, S.W.
Germiston, Glasgow	Arrol's Bridge & Reef Co., Ltd., Germiston Works, Glasgow
Gibbins, Birmingham	Gibbins R. C., & Co., Berkeley St., Birmingham
Gippeswyk, Ipswich	Turner E. R. & F., Ltd. (132), Ipswich
Giweir, Glasgow	Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow
Glasses, Newton Heath	Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester
Glenboig, Glasgow	Glenboig Union Fire Clay Co., Ltd., 48, W. Regent St., Glasgow
Glenfield, Kilmarnock	Glenfield Co., Ltd., Kilmarnock, N.B.
Glenros, Glasgow	Ross R. G., & Son, Glasgow
Globe, Motherwell	Miller A. & T., Globe Ironworks, Motherwell
Glover, Engineers, Leeds ..	Glover M., & Co., Leeds
Goldsworthy, Manchester ..	Goldsworthy T., & Son, Hulme, Manchester
Goodalls, Brighouse	Fleming, Birkby & Goodall, Ltd., Clifton Bridge Mills, Brighouse
Gothic, Norwich	Laurence, Scott & Co., Ltd., Norwich
Goubert, New York	Goubert Mfg. Co., New York, U.S.A.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Grace, Thrapston	Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston
Grafton, Engineers, Bedford	Grafton & Co., Bedford
Graftonian, London	Grafton & Co., 113, Cannon St., E.C. [Durham
Grange, Durham	Grange Iron Co., Ltd., Foundry, Engineering and Boiler Works,
Graysilver, London	India Rubber, Gutta Percha, & Telegraph Works Co., Ltd., Silvertown, Essex
Greaves, Birmingham	Greaves, Bull & Lakin, Worcester Wharf, Birmingham
Greaves, Warwick	Greaves, Bull & Lakin, Warwick
Greenwood, Leeds	Greenwood & Batley, Ltd., Albion Works, Leeds
Gresley, Manchester	Smith & Coventry, Ltd., Gresley Ironwks., Ordsal Lane, M'chester
Grice, Birmingham	Grice, Grice & Son, Sheepcote St., Birmingham
Grieve, Motherwell	Grieve John, & Co., Motherwell, Scotland
Gunther, Oldham	Gunther W., & Sons, Central Works, Oldham
Guttapercha, Glasgow	Dick R. & J., Greenhead Works, Glasgow
Gwynne, London	Gwynne J. & H., Ltd., Hammersmith Ironwks., W., & 64, Cannon St.,
Gwynnegram, London	Gwynne & Co., Brooke St. Works, Holborn, E.C. [E.C.
Hadfield, Sheffield	Hadfield's Steel Foundry Co., Ltd., Hecla Works, Sheffield
Haigh, Oldham	Haigh W. B., & Co., Ltd., Globe Ironworks, Oldham
Hallford, London	Hall J. & E., Ltd., 23, St. Swithin's Lane, E.C.
Hallford, Dartford	Hall J. & E., Ltd., Dartford, Kent
Hammerman, London	Wallach Bros., 57, Gracechurch St., E.C.
Hammers, Birmingham	Smith Thos., & Sons, of Saltley, Ltd., Saltley Mill, Birmingham
Handyside, Derby	Handyside Andrew, & Co., Ltd., Britannia Ironworks, Derby
Handyside, London	Handyside Andrew, & Co., Ltd., 104, Queen Victoria St., E.C.
Hannan, Glasgow	Hannan & Buchanan, 75, Robertson St., Glasgow
Hardypick, Sheffield	Hardy Patent Pick Co., Ltd., Sheffield
Hartnell, Leeds	Hartnell Wilson, Volt Works, Kirkstall Rd., Leeds
Hathorn, Leeds	Hathorn, Davey & Co., Sun Foundry, Leeds
Hayes, Stony Stratford	Hayes Edward, Stony Stratford, Wolverton, & 12, Gt. St. Helen's, E.C.
Heagard, Birmingham	Heagard Metal Co., 137, Lionel St., Birmingham
Heap, Ld., Ashton-under-Lyne	Heap Jos., & Co., Ltd., Ashton-under-Lyne
Heth, Manchester	Hetherington John, & Sons, Ltd., Manchester [Hill, E.C.
Hibou, London	Burton C. W., Griffiths & Co., 1, 2 & 3, Ludgate Square, Ludgate
Hioracio, Glasgow	Wilks, Sloan & Co., 112, Bath St., Glasgow
Highgate, Shettleston	Pollock, MacNab & Highgate, Shettleston, Glasgow
Highpressure, London	Fraser John, & Son, Millwall Boiler Works, E. [U.S.A.
Hillclark, Boston, U.S.A.	Brainard Milling Machine Co., 156, Oliver St., Boston, Mass.,
Hildick, Walsall	Hildick & Hildick, Walsall Tube Works, Walsall
Hill, Derby	Hill Isaac, & Son, St. George's Engineering Works, Woods Lane, Derby
Hindley, Bourton	Hindley E. S., Bourton, Dorset
Hoisting, Glasgow	Carruthers J. H., & Co., Polmadie Ironworks, Glasgow
Holmes, Newcastle	Holmes J. H., & Co., Portland Rd., Newcastle-on-Tyne
Hornsby, Grantham	Hornsby R., & Sons, Ltd., Spittlegate Iron Works, Grantham
Hornsby, London	Hornsby R., & Sons, Ltd., 75A, Queen Victoria St., E.C.
Horsepower, London	Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon
Hotwater, London	Thames Bank Iron Co., Upper Ground St., S.E. [St., E.C.
Howell, Sheffield	Howell & Co., Ltd., Brook Steel Works, Sheffield
Howl, Tipton	Lee, Howl & Co., Ltd., Tipton
Humboldt, Kalk	Humboldt Engineering Works, Co., Kalk, near Cologne

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Humpidge, Cainscross	Humpidge, Holborow & Co., Ltd. , Dudridge, near Stroud
Hunt, Earls Colne	Hunt R., & Co. , Atlas Works, Earls Colne, Essex
Hydraulic, Bristol	Owen, Brazil & Holborow , Vulcan Ironworks, Bristol
Hydraulic, Leeds	Middleton Robt. , Sheepscair Foundry, Leeds
Hydraulics, London	Smith Archibald, & Stevens , Janus Works, Queen's Rd., Battersea
Hydrological, London	Warner Robert, & Co. , 97, Queen Victoria St., E.C.
Hydrostatic, London	East Ferry Road Engineering Works Co., Ltd. , Millwall, E.
Hyson, Nottingham	Smith, Brothers & Co. , Hyson Green Works, Nottingham
Hypostile, Glasgow	Boyle R., & Son, Ltd. , 110, Bothwell, Glasgow
Hypostile, London	Boyle R., & Son, Ltd. , 64, Holborn Viaduct, E.C.
Indicator, Glasgow	McInnes T. S., & Co., Ltd. , 42, Clyde Place, Glasgow
Indicator, Manchester	Kirk Wheatley, Price & Goulty , Albert Square, Manchester
Indioes, London	Kirk Wheatley, Price & Goulty , 49, Queen Victoria St., E.C.
Infallible, London	Brewer & Son , 33, Chancery Lane, W.C.
Influx, Manchester	Holden & Brooke, Ltd. , Sirius Works, West Gorton, Manchester
Infusion, London	Rhodes B., & Son , 234 & 240, Bow Rd., E.
Ingot, Glasgow	Glasgow Iron & Steel Co., Ltd. , 36, St. Vincent Place, Glasgow
Inspirator, London	Hancock Inspirator Co. , Old Swan Wharf, London Bridge, E.C.
Instantly, London	Winter F. , 8, Redcross St., E.C.
Insulator, London	Mosses & Mitchell , 68, 69, 70 & 71, Chiswell St., E.C.
Intensifier, London	Middleton Robt. , 9, Fenchurch Avenue, E.C.
Intersection, London	Piggott Thos., & Co., Ltd. , St. Thomas Apostle, E.C.
Invention, London	Redfern G. F., & Co. , 4, South St., Finsbury, E.C.
Invention, Sheffield	Laycock W. S. , Victoria Works, Sheffield
Inventions, Glasgow	Thomson W. R. M., & Co. , 96, Buchanan St., Glasgow
Iron, Greenock	Houston J. & R. , Cartburn Foundry and Glenburn Iron Works, Greenock, N.B.
Ironsides, Liverpool	Morton Francis, & Co., Ltd. , Hamilton Ironworks, Garston
Ironworks, Poole	Longsdon A. & W. , Waterloo Ironworks, Poole
Irradiating, London	Coll Cluteh & Pulley Co., Ltd. , Broad St. House, E.C.
Isea, London	Isea Foundry Co. , 10, Bush Lane, E.C.
Isea, Newport	Isea Foundry Co. , Newport, Monmouthshire
Isham, Liverpool	United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd. , 14, Cook St., Liverpool
Isler, London	Isler C., & Co. , Artesian Works, Bear Lane, S.E.
Iales, Stanningley	Iales Limited , Steam Crane Works, Stanningley, Leeds
Jackson, Claycross	Clay Cross Co. , Clay Cross, near Chesterfield
Jacksons, Manchester	Jackson P. R., & Co., Ltd. , Salford Rolling Mills, Manchester
Jardine, Nottingham	Jardine John , Nottingham
Jessop, Leicester	Jessop & Appleby Bros. (Leicester and London), Ltd., Leicester
Jessops, Sheffield	Jessop Wm., & Sons, Ltd. , Brightside Works, Sheffield
Jointing, Liverpool	House & Co., Ltd. , Marlboro' Works, 36, Vauxhall Rd., Liverpool
Jones, Limited, Lionel Street, Birmingham	Jones George, Ltd. , Lionel St. Foundry, Birmingham
June, London	Johnson & Phillips , 14, Union Court, E.C.
June, Old Charlton	Johnson & Phillips , Victoria Works, Old Charlton, Kent

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Kaye, Hunslet	Kaye Jos., & Sons, Lock Works, Leeds
Kennedy, Kilmarnock	Kennedy's Patent Water Meter Co., Ltd. , Kilmarnock, Scotland
Kilbowie, London	Tullis D. & J., Ltd., 52, Queen Victoria St., E.C.
Kincaid, Greenock	Kincaid John G., & Co., Greenock, Scotland
Knapping, Leeds	Baxter W. H., Ltd., Leeds
Korting, London	Korting Bros. , 53, Victoria St., Westminster, S.W.
Kosmos, Glasgow	Chisholm & Law , Saracen Tube Works, Glasgow
Labourless, London	Brooke J. W., & Co., 77A, Queen Victoria St., E.C.
Lagan Foundry, Belfast	Coates Victor, & Co., Ltd., Lagan Foundry, Belfast
Lamberton, Coathbridge	Lamberton & Co. , Coathbridge, N.B.
Lang, Johnstone	Lang John, & Sons, Johnstone, N.B.
Lapweld, Glasgow	Stewart A. & J., & Menzies , Ltd., 41, Oswald St., Glasgow
Lathe, Coventry	Herbert Alfred, Ltd., Coventry
Lathes, Birmingham	Taylor C., Ltd., Bartholomew St., Birmingham
Lathes, Felling	Noble & Lund , Felling, near Newcastle-on-Tyne
Lees, Hollinwood	Lees T. & R., Hollinwood, near Manchester
Legg, Newbridge, Wolver- hampton	Legg William F., Newbridge, Wolverhampton
Lewis, Wolverhampton	Lewis E., & Sons, Wolverhampton
Lias, London	Greaves, Bull & Lakin , 13, South Wharf, Paddington, W.
Lifting, Leicester	Taylor & Hubbard , Leicester
Lifts, London	Stannah J., 20, Southwark Bridge Rd., S.E.
Lignum, Glasgow	Kennedy James, & Co., 69, Buchanan St., Glasgow
Limited, Helsby	Telegraph Manufacturing Co., Ltd. , Helsby, near Warrington
Lithographer, London	Kell T., & Son, 40, King St., Covent Garden, W.C.
Llewellyn, Bristol	Llewellyn Machine Co. , Bristol
Lloyds, Birmingham	Lloyd & Lloyd , Ltd., Albion Tube Works, Birmingham
Lobnitz, Renfrew	Lobnitz & Co. , Ltd., Renfrew, Scotland
Loco, Leeds	Hudswell, Clarke & Co. , Railway Foundry, Leeds
Locomotive, Newcastle	Hawthorn R. & W., Leslie & Co., Ltd. , Newcastle-on-Tyne
Locomotive, Schenectady, U.S.A.	Schenectady Locomotive Works , Schenectady, N.Y., U.S.A.
Loculate, London	Southwark Manufacturing Co. , 73A, Southwark Bridge Rd., S.E.
Lubric, Failsforth	Empire Engineering Co. , Failsforth, Manchester
Lubricant, Manchester	Henry Wells Oil Co. , Imperial Oil Works, Deansgate, Manchester
Lubricants, Liverpool	Bradford J., & Sons, 44, Chapel St., Liverpool
Lubricator, Detroit	Michigan Lubricator Co. , 660-670, Beaubien St., Detroit, Mich., [U.S.A.]
Lunken, Cincinnati	Lunkenhelmer Co. , Cincinnati, Ohio, U.S.A.
Lunken, New York	Lunkenhelmer Co. , 26, Cortlandt St., New York, U.S.A.
Lunken, London	Lunkenhelmer Co. , 35, Great Dover St., S.E.
Lustroso, London	Dixon Jos., Crucible Co. , 28, Victoria St., S.W.
Machinery, Newcastle-on- Tyne	Nicholson Jos. C., Tool Co. , Newcastle-on-Tyne
Machinery, Reading	Mackies , Ltd., Berks Iron Works, Reading
MacLellan, Glasgow	MacLellan P. & W., Ltd., Clutha Ironworks, Plantation, Glasgow
MacLellan, Glasgow	MacLellan P. & W., Ltd., Offices: 122, Trongate, Glasgow
MacLellan, London	MacLellan P. & W., Ltd., 7 & 8, Great Winchester St., E.C.

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Macmechan, Manchester	Lancashire Belting and Hose Co., Manchester
Maconie, Glasgow	McOnie, Harvey & Co., Ltd., Sootland St. Engine Works, Glasgow
Magnolier, London	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.
Manloves, Glasgow	Manlove, Alliot & Co., Ltd., Glasgow
Manloves, London	Manlove, Alliot & Co., Ltd., 57, Gracechurch St., E.C.
Manloves, Engineers, Manchester	Manlove, Alliot & Co., Ltd., Manchester
Manloves, Nottingham	Manlove, Alliot & Co., Ltd., Nottingham
Manning, Leeds	Manning, Wardle & Co., Boyne Engine Works, Leeds
Manometer, Manchester	Schaffer & Budenberg, Whitworth St., London Rd., Manchester
Marsden, Leeds	Marsden H. R., Soho Foundry, Leeds
Marshall, Gainsborough	Marshall, Sons & Co., Ltd., Gainsborough
Mason, Longsight	Mason W. F., Ltd., Manchester
Masonica, Boston, U.S.A.	Mason Regulator Co., Boston, Mass., U.S.A.
Massey, Openshaw	Massey B. & S., Openshaw, Manchester
Maudslay, London	Maudslay, Sons, & Field, Ltd., Lambeth, S.E.
McNealpipe, Philadelphia	McNeal Pipe & Foundry Co., Land Title Building, Philadelphia, Pa., U.S.A.
McNeil, Glasgow	McNeil C., Jr., Kinning Park Iron Works, Glasgow
Measures, London	Measures Bros., Ltd., Southwark St., S.E.
Mechanikos, Glasgow	Donald James T., & Co., 345, Argyle St., Glasgow
Medina, Cowes	White J. S., & Co., Ltd., Medina Dock, Cowes
Melada, Glasgow	McOnie A. & P. W., Cessnock Engine Works, Govan, Glasgow
Meldrum, London	Meldrum Bros., 16, Union Court, Old Broad St., E.C.
Meldrum, Manchester	Meldrum Bros., 10, City Rd., Manchester
Mellis, London	Kerr, Stuart & Co., Ltd., 20, Bucklersbury, E.C.
Melloid, London	Bull's Metal and Melloid Co., Ltd., 6, Jeffrey's Square, St. Mary Axe, E.C.
Menzies, Leith	Menzies & Co., Ltd., Victoria Docks, Leith, N.B.
Merryweather, London	Merryweather & Sons, Ltd., 68, Long Acre, W.C.
Metallic, Bradford	United States Metallic Packing Co., Ltd., Soho Works, Thornton Rd., Bradford
Metallic, Glasgow	Murray J., 8, Anderson Quay, Glasgow
Metro, Birmingham	Metropolitan Railway Carriage Co., Birmingham
Mica, South Shields	Mica Lubricant Co., South Shields [Shrewsbury
Midland, Shrewsbury	Midland Railway Carriage & Wagon Co., Abbey Works,
Mills, Woodley	Mills James, Exors. of, Bredbury Steel Works, near Stockport
Millwright, London	Jessop & Appleby Bros. (Leicester & London), Ltd., 22, Walbrook, E.C.
Mirrlees, Glasgow	Mirrlees, Watson & Varyan Co., Ltd., Scotland St., Glasgow
Mitchells, Bradford, Manchester	Mitchell's Emery Wheel Co., Mill St., Bradford, Manchester
Mitchelson, Newcastle-on-Tyne	Kell Richard, & Co., 7, Sandhill, Newcastle-on-Tyne
Mitton, Birmingham	Hunt & Mitton, Oozells St. North, Birmingham
Mobilized, London	Westinghouse Electric Co., Ltd., 32, Victoria St., Westminster, S.W.
Modernize, Manchester	Klein Engineering Co., Ltd., 9, South Parade, Manchester
Moncrieff, Perth	Moncrieff John, Perth, Scotland
Moseley, Manchester	Moseley David, & Sons, Ardwick, Manchester
Multitube, Birkenhead	Cochran & Co., Duke St., Birkenhead
Mumford, Colchester	Mumford A. G., Culver St. Ironworks, Colchester
Musgrave, Bolton	Musgrave John, & Sons, Ltd., Globe Ironworks, Bolton, Lanc.
Musgrave, 11, East St., Leeds	Musgrave Bros., Crown Point Foundry, Leeds

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Napthotic, London	Neat Charles, & Co., 112, Queen Victoria St., E.C.
National, Ashton-under-Lyne	National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester
National, Manchester	National Boiler & General Insurance Co., Ltd., 22, St. Ann's Square, Manchester
Naxium, London	London Emery Works Co., 10 & 12, Vine St., Clerkenwell, E.C.
Negretti, London	Negretti & Zambra, Holborn Viaduct, E.C.
Nelson, Motherwell	Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works,
Nettlefolds, Birmingham ..	Nettlefolds Limited, 16, Broad St., Birmingham Motherwell
Nettlefolds, London	Nettlefolds Limited, London
Neville, Liverpool	Neville Julius G., & Co., Water St., Liverpool
Newbold, London	Bender & Martiny, 28, Gracechurch Street, E.C.
Newburn, London	Spenceer John, & Sons, Ltd., 189, Cannon St., E.C. (Tyne)
Newburn, Newcastle-on-Tyne	Spencer John, & Sons, Ltd., Newburn Steel Works, Newcastle-on-
Newton, Philadelphia, U.S.A.	Newton Machine Tool Works (Incorp.), Philadelphia, U.S.A.
Niles, Hamilton, Ohio	Niles Tool Works Co., Hamilton, Ohio, U.S.A.
Niliacus, London	Niles Tool Works Co., 39, Victoria St., Westminster, S.W.
Noclaf, London	Barron F. C., & Co., 9, St. Mildred's Court, Poultry, E.C.
Norman, Glasgow	Norman John, 131A, St. Vincent St., Glasgow [Victoria Dock Rd., E.
Normandy, London	Normandy's Patent Marine Aerated Fresh Water Co., Ltd.
Notwithstanding, London ..	Best Belting Co., Ltd., 13, Cullum St., E.C.
Nozles, London	Granger A. W., Brooke Rd., Stoke Newington, N.
Nuttall, Allegheny, Pa., U.S.A.	Nuttall R. D. Co., Allegheny, Pa., U.S.A.
Oakey, London	Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.E.
Oaktree, London	Okes J. C. R., 63, Queen Victoria St., E.C.
Ooclude, London	Nalder Bros., & Thompson, 34, Queen St., E.C.
Ohm, London	Elliott Bros., 101, St. Martin's Lane, W.C.
Olrick, London	Olrick L., & Co., 27, Leadenhall St., E.C.
Openwork, London	Improved Patent Forced Draught Furnace Syndicate, Ltd., 73, Queen Victoria St., E.C.
Opodeldoc, London	Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.
Original, Manchester	Cameron John, Oldfield Rd. Ironworks, Salford
Osborn, Sheffield	Osborn S., & Co., Clyde Steel Works, Sheffield
Owens, London	Owens S., & Co., Whitefriars, E.C.
P. Smit, Jr., Rotterdam ..	Smit P., Jr., Rotterdam, Holland
Packless, Manchester	Frictionless Engine Packing Co., Ltd., Cable Mills, Glasshouse St., Oldham Rd., Manchester
Pagefield, Wigan	Walker Bros., Pagefield Ironworks, Wigan
Palfreyman, Liverpool ..	Palfreyman W. H., & Co., 17, Goree-Piazzas, Liverpool
Palmitine, Manchester ..	Price's Patent Candle Co., Ltd., 3, Cross St., Manchester
Parker, Derby	Parker Foundry Co., Derby
Partridge Cooper, London	Partridge & Cooper, 191 & 192, Fleet St., & 1 & 2, Chancery Lne., E.C.
Patella, London	Geipel & Lange, 68, Victoria St., S.W.
Patella, Paisley	Paterson, Cooper & Co., Thistle Works, Paisley
Patents, Glasgow	Cruikshanks & Fairweather, 62, St. Vincent St., Glasgow
Paxman, Colchester	Davey, Paxman & Co., Ltd., Standard Works, Colchester
Peckett, Bristol	Peckett & Sons, Atlas Engine Works, Bristol
Peebles, Leith	Peebles D. Bruce, & Co., Tay Works, Edinburgh
Penman, Glasgow	Penman & Co., 377, Dalmarnock Rd., Glasgow

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Perforation, London	Barns W., & Son, Perforating Works, Chalton St., N.W.
Pfeil, London	Pfeil & Co., 145-9, St. John St., Clerkenwell, E.C.
Phoenix, Keighley	Summerscales W., & Sons, Ltd., Phoenix Foundry, Keighley
Phoenix, Paisley	Fleming & Ferguson, Ltd., Paisley, near Glasgow
Phosphor, Birmingham	Phosphor Bronze Co., Ltd., Birmingham
Phosphor Bronze, London	Phosphor Bronze Co., Ltd., 87, Sumner St., S.E.
Phosphor, Liverpool	Phosphor Bronze Co., Ltd., Liverpool
Photophore, London	Guilbert-Martin, 1 & 2, Falcon St., Aldersgate St., E.C.
Pickering, Wisahaw	Pickering R. Y., & Co., Ltd., Wisahaw, near Glasgow
Pickwick, London	Chapman & Hall, Ltd., Henrietta St., Covent Garden, W.C.
Pipkin, New York	Jenkin Bros., 71, John St., New York, U.S.A.
Piston, Sheffield	Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield
Pistons, Manchester	Lancaster & Tonge, Ltd., Pendleton, near Manchester
Planer, Glasgow	Smith Brothers & Co., Kingston Engine Works, Glasgow
Platt, Wednesbury	Platt Samuel, Wednesbury
Players, Birmingham	Player W. & J., Lionel St., Birmingham
Plenty, Newbury	Plenty & Son, Ltd., Newbury, Berks
Pneumatics, Birmingham	Hydro-Kinetic Engineering Syndicate, Ltd., Princes Chambers, 6, Corporation St., Birmingham
Pollock, Johnstone	Pollock, Whyte & Waddell, Globe Engineering Works, Johnstone
Ponfex, London	Pontifex & Wood, Ltd., 44, New Bridge St., E.C.
Pooley, Liverpool	Pooley H., & Son, Albion Foundry, Liverpool
Possil, Glasgow	Smith Hugh, & Co., Possil Engine Works, Glasgow
Potential, London	Scott Ernest, & Mountain, Ltd., 20, New Bridge St., Blackfriars, E.C.
Pott, Motherwell	Pott, Cassels & Williamson, Motherwell, near Glasgow
Preferment, London	Ledward T., & Co., 85, Queen Victoria St., E.C.
Prefix, London	Dorman & Smith, 94, Charing Cross Rd., W.C.
Prepollent, London	Lee, Howl & Co., Ltd., 5, Dowgate Hill, Cannon St., E.C.
Press, Leeds	Rice & Co., Neville Works, Elland Rd., Leeds
Price, Workington	Price John, Workington
Prices, Birkenhead	Price's Patent Candle Co., Ltd., Bromborough Pool, Liverpool
Priestman, Hull	Priestman Bros., Holderness Foundry, Hull
Priestman, London	Priestman Bros., 78A, Queen Victoria St., E.C.
Privilege, London	Harris & Mills, 23, Southampton Buildings, W.C.
Proctor, Burnley	Proctor James, Burnley, Lancashire
Profile, Coventry	Webster & Bennett, Coventry
Promptitude, London	Blackwall Galvanized Iron Co., Ltd., 4, Corbet Court, E.C.
Pulleys, Bradford	Croft & Perkins, Leeds Rd., Bradford, Yorks.
Pulsometer, Glasgow	Pulsometer Engineering Co., Ltd., 8, York St., Glasgow
Pulsometer, London	Pulsometer Engineering Co., Ltd., 61 & 63, Queen Victoria St., E.C.
Pulsometer, Leeds	Pulsometer Engineering Co., Ltd., 1, East Parade, Leeds
Pump, Bedford	Allen W. H., Son & Co., Queen's Engineering Works, Bedford
Pump, London	Allen W. H., Son & Co., 19, Great George St., Westminster, S.W.
Pumping, London	Worthington Pumping Engine Co., 153, Queen Victoria St., E.C.
Pumps, Leeds	Leeds Engineering & Hydraulic Co., Cross Stamford St., Leeds
Pumps, Manchester	Fearn F., & Co., Ltd., West Gorton, Manchester
Pyrometer, London	Schaffer & Budenborg, 77A, Queen Victoria St., E.C.
Pyxox, London	Stamm W., 25, College Hill, E.C.

Quarries, Leeds Whitaker Bros., Ltd., Horsforth, near Leeds

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Ragazine, London	Ragazine & Co. , 7, Idol Lane, E.C.
Railway, Darlington	McLachlan & Co. , Darlington
Rams, Accrington	Blake John, Ltd. , Oxford St. Works, Accrington, Lancashire
Ransome, London	Ransome A., & Co., Ltd. , King's Rd., Chelsea, S.W.
Ransomes, Ipswich	Ransomes, Sims & Jefferies, Ltd. , Orwell Works, Ipswich
Ransomes Rapier, London ..	Ransomes & Rapier, Ltd. , 32, Victoria St., S.W.
Readers, Nottingham	Reader E., & Sons , Phoenix Works, Nottingham
Redpath, Limehouse, London	Redpath & Paris , Lea Cut Ironworks, Limehouse, E.
Reducing, Glasgow	Auld David, & Sons , Whitevale Foundry, Glasgow
Reform, Manchester	Simon Henry, Ltd. , 20, Mount St., Manchester
Refrigeration, London	Linde British Refrigeration Co., Ltd. , Lower Shadwell, E.
Reichwald, London	Reichwald August , 9, New Broad St., E.C.
Reichwald, Newcastle-on-Tyne	Reichwald August , Lombard St., Newcastle-on-Tyne
Reidwill, Liverpool	Reid Wm., & Co. , Liverpool
Reidwill, London	Reid Wm., & Co. , 112, Fenchurch St., E.C.
Reidwill, Newcastle-on-Tyne	Reid Wm., & Co. , Newcastle-on-Tyne
Reliance, Wolverhampton ..	Ironmongers' Rope Works, Ltd. , Brickfield St., Wolverhampton
Repsov, Portsmouth	Vosper & Co. , Broad St., Portsmouth
Rhodes, Ladyroyd, Bradford	Rhodes Enoch , Ladyroyd, Bradford
Richards, Altrincham	Richards Geo., & Co., Ltd. , Broadheath, near Manchester
Richardsons, Hartlepool ..	Richardson Thos., & Sons, Ltd. , Hartlepool
Rieto, London	Rice Thos. S. , 60, Watling St., E.C.
Riemlager, Hamburg	Gehrozens C. Otto , Hamburg
Rivet, Glasgow	Clyde Rivet Works Co. , Glasgow
Riveter, Leeds	Berry Henry, & Co., Ltd. , Croydon Works, Leeds
Rixson, Sheffield	Woodhouse & Rixson , Attercliffe, Sheffield
Robey, Lincoln	Robey & Co., Ltd. , Lincoln
Robinson, Rochdale	Robinson T., & Son, Ltd. , Rochdale
Rodadura, London	Burnham, Williams & Co. , Dashwood House, 9, New Broad St., E.C.
Roebuck, London	Buck & Hickman , 2 & 4, Whitechapel Rd., E.
Roger, Stockton-on-Tees ..	Roger Robt., & Co. , Stockton Iron Foundry, Stockton-on-Tees
Roman, Manchester	Bremner J. A., & Co. , Albert St., Manchester
Ronksley, Armley	Johnson W., & Sons , Castleton Foundry, Armley Rd., Leeds
Roofing, Liverpool	Dixon Isaac, & Co. , Windsor Iron Works, Spekeland Rd., Liverpool
Ropeways, London	Ropeways Syndicate, Ltd. , 150, Leadenhall St., E.C.
Rose, Hull	Rose, Downs & Thompson, Ltd. , Old Foundry, Hull
Rothermel, London	Rothermel Paul , 105, Leadenhall St., E.C.
Rotnevi, London	Phillips & Leigh , 22, Southampton Buildings, Chancery Lane, W.C.
Russell, Motherwell	Phillips G., & Co. , Motherwell, N.B.
Russell, Wednesbury	Russell Jas., & Sons, Ltd. , Crown Tube Works, Wednesbury
Ruston, Lincoln	Ruston, Proctor & Co., Ltd. , Sheaf Iron Works, Lincoln
Salford, Brighouse	Fleming, Birkby & Goodall, Ltd. , Salford Card Works, Brighouse
Samuelson, Banbury	Samuelson & Co., Ltd. , Banbury, Oxon
Sankey, Canning Town	Sankey J. H., & Son , Canning Town, E.
Satisfactory, Liverpool ..	Cole Henry A. & Co. , Coronet Works, Liverpool
Schiele, Manchester	Schiele Union Engineering Co., Ltd. , Pollard St., Manchester
Schram, London	Schram R., & Co. , Cannon St. House, E.C.
Scott, Halifax	Scott Bros. , West Mount Works, Halifax
Scriven, Leeds	Scriven & Co. , Marsh Lane, Leeds

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Scythes, Sheffield	Linley & Bingham , Clough Works, Sheffield
Selig, London	Selig, Sonnenthal & Co. , 85, Queen Victoria St., E.C.
Sellers, Philadelphia	Sellers William, & Co. (Incorp.), Philadelphia, Penn., U.S.A.
Separator, London	Linde British Refrigeration Co., Ltd. , 35, Queen Victoria St. E.C.
Severndale, London	Coalbrookdale Co., Ltd. , 1, Victoria Embankment, Blackfriars, E.C.
Shaft, Wednesbury	Patent Shaft & Axletree Co., Ltd. , Wednesbury
Shanks, Johnstone	Shanks Thomas, & Co., Union Iron Works, Johnstone, near Glasgow
Shelton, Stoke-on-Trent	Shelton Iron, Steel and Coal Co., Ltd. , Stoke-on-Trent
Sheltonian, London	Shelton Iron, Steel and Coal Co., Ltd. , 122, Cannon St., E.C.
Shores, Engineers, Hanley	Shore T., & Sons , Albion Foundry, Hanley, Staffs. [Westminster, S.W.]
Shovelling, London	Brown Hoisting & Conveying Machine Co. , 39, Victoria St.,
Siemens, London	Siemens Brothers & Co., Ltd. , 12, Queen Anne's Gate, West-
Siemens, Motherwell	Lanarkshire Steel Co., Ltd. , Motherwell, N.B. [minster, S.W.]
Silently, London	Parsons C. A., & Co. , 66, Victoria St., S.W. [100, Cannon St., E.C.]
Silvergray, London	India Rubber, Gutta Percha, & Telegraph Works Co., Ltd. ,
Silverline, London	Blackwall Galvanized Iron Co., Ltd. , Orchard Place, Blackwall
Simons, Renfrew	Simons W., & Co., Ltd. , Renfrew, Scotland
Sinclair, Leith	Sinclair George, Albion Boiler Works, Leith, N.B.
Smedleys, Belper	Smedley Bros. , Ltd., Belper, Derbyshire
Smith, Rodley	Smith Thomas, Steam Crane Works, Rodley, near Leeds
Smith, 9, Strand, London	Smith S., & Son , 9, Strand, W.C.
Smithfield, Leeds	Green T., & Son, Ltd. , Smithfield Iron Works, Leeds
Smiths, Nottingham	Smith Sydney, & Sons, Basford Brass Works, Nottingham
Smit-Zoon, Kinderdijk	Smit L., & Zoon , Kinderdijk, near Rotterdam, Holland
Snowdrift, London	Snowdon, Sons & Co., Ltd. , Millwall, E.
Soho, Paisley	Campbell & Calderwood , Soho Engine Works, Paisley, Scotland
Southwood, Risca	Southwood Jones & Co., Ltd. , Risca, Mon.
Spear, Sheffield	Spear & Jackson , Aetna Works, Sheffield
Spherical, Birmingham	Heenan & Froude , Aston, Birmingham
Spherical, Newton Heath	Heenan & Froude , Newton Heath Ironworks, Manchester
Spiral, Glasgow	Brown W. S., Jun., & Co. , 67, Washington St., Glasgow
Spotless, London	Eyre & Spottiswoode , Great New St., E.C.
Sprinklers, London	Dowson, Taylor & Co., Ltd. , 14, Victoria St., Westminster, S.W.
Sprocket, London	Ashton Valve Co. , 1 & 2, Rangoon St., E.C.
Spurinman, Wakefield	Spurr, Inman & Co., Ltd. , Railway Ironworks, Wakefield
Steamplow, London	Fowler John, & Co. (Leeds) Ltd., 6, Lombard St., E.C.
Steampoint, London	Hindley E. S. , 11, Queen Victoria St., E.C.
Steampump, London	Blake & Knowles' Steam Pump Works, Ltd. , 179, Queen Victoria St., E.C.
Steel, Glasgow	Steel Company of Scotland , 23, Royal Exchange Sq., Glasgow
Steel, Wrexham	Brymbo Steel Co., Ltd. , Wrexham
Steel-Rope, Liverpool	Brown W. B., & Co. , Globe Works, Bankhall, Liverpool
Steelworks, Wolsingham	Rogerson, John, & Co., Ltd. , Wolsingham, R.S.O., Co. Durham
Sternwheel, Lytham	Lytham Shipbuilding & Engineering Co. , Lytham, Lanc.
Stewart, Coatbridge	Stewart A. & J., & Menzies , Ltd., Coatbridge
St. Nicholas, Carlisle	Cowans, Sheldon & Co., Ltd. , Carlisle
Storage, London	Electrical Power Storage Co., Ltd. , 4, Gt. Winchester St., E.C.
Stork, Manchester	Storey Isaac, & Sons, Little Peter St., Manchester
Stothert, Bath	Stothert & Pitt, Ltd. , Bath
Stothert, London	Stothert & Pitt, Ltd. , Bath [Gorton, Manchester]
Strength, Manchester	Unbreakable Pulley and Mill Gearing Co., Ltd. , West

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Surrey Works, London	Green T., & Son, Ltd., Surrey Works, Blackfriars Road, S.E.
Suspend, London	Wheeler Condenser & Engineering Co., 179, Queen Victoria St., E.C.
Sustained, London	Klinger Richard, & Co., 66, Fenchurch St., E.C.
Syenite, Birmingham	Wilkinson J., & Sons, Saltley, Birmingham
Syphonia, Glasgow	Boyle J. J., 65, Waterloo St., Glasgow
Syphonia, London	Boyle J. J., Suffolk House, Laurence Pountney Hill, E.C.
Taite-Carlton, London	Taite, Howard & Co., Ltd., 63, Queen Victoria St., E.C.
Tangyes, Birmingham	Tangyes Limited, Cornwall Works, Birmingham
Tangyes, Birmingham	Tangyes' Machine Tool Co., Ltd., Oxford Works, Birmingham
Tangyes, Glasgow	Tangyes Limited, Argyle St., Glasgow
Tangyes, London	Tangyes Limited, 35, Queen Victoria St., E.C.
Tangyes, Manchester	Tangyes Limited, Deansgate, Manchester
Tangyes, Newcastle	Tangyes Limited, St. Nicholas Buildings, Newcastle-on-Tyne
Taps, Salford	Widdowson J. H., Ordsall Lane, Salford, Manchester
Tattersall, Mill Hill, Blackburn	Tattersall A. A., Mill Hill Tool Works, Blackburn
Tay, Glasgow	Arrol Sir William, & Co., Ltd., Dalmarnock Iron Works, Bridgeton, Glasgow
Temperature, London	Green & Boulding, 105, Bunhill Row, E.C.
Thames, London	Thames Ironworks & Shipbuilding Co., Ltd., Blackwall, E.
The Tannery, Ipswich	Ipswich Tannery, Ltd., Suffolk
Theorem, Patricroft	Gardner & Sons, Barton Hall Engine Works, Patricroft, Manchester
Thereupon, London	Braithwaite Isaac, & Son, 24, Garlick Hill, Cannon St., E.C.
Thirtyfour, London	Scott Geo., & Son, 44, Christian St., E.
Thompson & Co., Tamworth	Thompson & Co., Victoria Works, Tamworth, Staffs.
Thornton-Pickard, Broadheath	Thornton-Pickard Manufacturing Co., Ltd., Altrincham
Thornycroft, London	Thornycroft J. I., & Co., Church Wharf, Chiswick W.
Thwaites, Bradford	Thwaites Bros., Ltd., Bradford, Yorkshire
Tittley, Smethwick	Tittley Henry, & Son, Alton Works, Smethwick, Birmingham
Tolamaco, London	Armstrong J., & Co., Ltd., 116, Queen Victoria St., E.C.
Tolch, London	Tolch & Co., The Boatyard, Fulham, S.W.
Tomey, Aston, Birmingham	Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham
Tools, Manchester	Kendall & Gent, Belle Vue, Hyde Rd., Manchester
Toopes, London	Toope's Asbestos Covering Co., Ltd., Stepney Sq., Stepney, E.
Toughness, London	Schreiber S., 8, Victoria Avenue, Bishopsgate St., E.C.
Toward, Newcastle-on-Tyne	Toward T., & Co., Ouseburn, Newcastle-on-Tyne
Transmo, London	Temperley Transporter Co., 72, Bishopsgate St. Within, E.C.
Treasure, Liverpool	Treasure J. B., & Co., 8, Vauxhall Rd., Liverpool
Trewent, London	Trewent F. J., 43, Billiter Buildings, Billiter St., E.C.
Troughs, London	Paterson, Downs & Jardine, 36, Lime St., E.C.
Tube, Glasgow	Marshall John, & Sons, Glasgow Tube Works, Glasgow
Tuckahoe, Philadelphia	Wood R. D., & Co., Philadelphia, U.S.A.
Tucks, Dublin	Tuck & Co., Ltd., 13, Aston's Quay, Dublin
Tucks, London	Tuck & Co., Ltd., 116, Cannon St., E.C.
Tudor, Birmingham	Ward H. W., & Co., Lionel St., Birmingham
Tullis, Clydebank	Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow
Tullis, Glasgow	Tullis John, & Co., St. Ann's Leather Works, Glasgow

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Tunzelman, London	Electrical and General Engineering College , Penywern House, 2 & 4, Penywern Rd., Earl's Court, S.W.
Turbinia, Wallsend	Parsons Marine Steam Turbine Co., Ltd. , Turbinia Works, Wallsend-on-Tyne
Turbo, Newcastle-on-Tyne ..	Parsons C. A., & Co. , Heaton Works, Newcastle
Turnstile, London	Stanley W. F. , Great Turnstile, Holborn, W.C.
Turtions, Sheffield	Turton T., & Sons, Ltd. , Spring Works, Sheffield (St., E.C.)
Tuyaux, London	United Flexible Metallic Tubing Co., Ltd. , 112, Queen Victoria
Tylerox, London	Hayward-Tyler & Co. , 90 & 92, Whitecross St., E.C.
Tyne, Newcastle-on-Tyne ..	Spencer John, & Sons, Ltd. , Ouseburn Works, Newcastle-on-Tyne
Ubique, Liverpool	United Alkali Co., Ltd. , Exchange Buildings, Liverpool
Unbreakable, London	Wells A. C., & Co. , 102, Midland Rd., St. Pancras, N.W.
Unbreakable, Manchester ..	Wells A. C., & Co. , Carnarvon St., Cheetham, Manchester
Unbonally, London	Goubert Mfg. Co. , 47, Victoria St., Westminster, S.W.
Unwavering, London	Hulburd Engineering Co. , 150, Leadenhall St., E.C.
Vacuum, London	Vacuum Oil Co. , Albany Buildings, Victoria St., Westminster, S.W.
Valve, Bishopbriggs	Turnbull Alex., & Co. , Bishopbriggs, Glasgow
Valve, Liverpool	Metallic Valve Co. , Tower Buildings, Water St., Liverpool
Vanner, London	Fraser & Chalmers, Ltd. , 43, Threadneedle St., E.C.
Vaporize, London	Caird & Rayner , 777, Commercial Rd., Limehouse, E.
Velometer, London	Champion Friction Clutch Co., Ltd. , 9, London St., E.C.
Velometer, Sheffield	Champion Friction Clutch Co., Ltd. , Trent St., Attercliffe, Sheffield
Venator, London	Hunter & English , Bow, E.
Ventilator, London	Blackman Ventilating Co., Ltd. , 68, Fore St., E.C.
Venture, London	Jensen & Son , 77, Chancery Lane, W.C.
Vermillionette, London ..	Holmes J. H., & Co. , 17, Soho Sq., W.
Vickers, London	Vickers, Sons & Maxim, Ltd. , 28, Victoria St., Westminster, S.W.
Vickers, Sheffield	Vickers, Sons & Maxim, Ltd. , River Don Works, Sheffield
Vigilantia, London	Aird Jos. , 46, Queen Victoria St., E.C.
Vigilantia, Tipton	Aird Jos. , Wrot. Iron and Steel Tube Works, Great Bridge, Staffs.
Viscosity, London	Trier Bros. , 1, Great George St., Westminster, S.W.
Voidance, London	Hughes & Lancaster , 47, Victoria St., Westminster, S.W.
Voidance, Ruabon	Hughes & Lancaster , Acrefair Engineering Works, Ruabon
Volacions, London	Elworthy H. S. , 239, Dashwood House, New Broad St., E.C.
Volacions, London	Hydro-Kinetic Engineering Syndicate, Ltd. , 239, Dashwood House, E.C.
Vonder, Manchester	Von der Heyde J. Bennett , 6, Brown St., Manchester
Vonglehn, London	Decauville Ainé , 7, Idol Lane, E.C.
Vowel, Manchester	Bradford Thos., & Co. , Crescent Ironworks, Salford, Manchester
Vulcan, Liverpool	Henderson & Glass , Iron Merchants, Liverpool
Vulpes, Leeds	Leeds Forge Company, Ltd. , Leeds
Wagonload, London	Pickering R. Y., & Co., Ltd. , 3, Victoria St., S.W.
Wallis, Euston Rd., London	Wallis George, & Co. , 258, Euston Rd., N.W.
Walker, Bristol	Avonside Engine Co. , Bristol
Waste, Liverpool	Palatine Engineering Co., Ltd. , 10, Blackstock St. Liverpool

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Waterside, Ipswich	Ransomes & Rapier, Ltd. , Waterside Works, Ipswich
Watsons, Newcastle	Watson Henry, & Co. High Bridge Works, Newcastle-on-Tyne
Watt, Soho, Smethwick	Watt James, & Co. , Soho Foundry, Birmingham
Waygood, London	Waygood B., & Co., Ltd. , Falmouth Rd., S.E. [E.C.]
Weardale, London	Weardale Iron & Coal Co., Ltd. , George Yd., Upper Thames St.,
Weardale, Manchester	Weardale Iron & Coal Co., Ltd. , Manchester
Weardale, Newcastle	Weardale Iron & Coal Co., Ltd. , Newcastle [Durham]
Weardale, Spennymoor	Weardale Iron & Coal Co., Ltd. , Tudhoe Ironworks, Spennymoor
Webb, Combs	Webb & Son , Combs Tannery, Stowmarket
Weigh, Leeds	Denison Saml. & Son , Hunslet Carr, Leeds, S.
Weisens, Hallesaaale, Germany	Weise & Monski , Halle (Saale), Germany
Weldless, Birmingham	Weldless Steel Tube Co. , 303, Icknield Port Rd., Birmingham
Wellhole, London	Vauxhall Ironworks Co., Ltd. , Wandsworth Rd., S.W.
Werkzengfabrik Kirsh, Damm - Aschaffenburg, Bavaria	Kirsch Aug. , Damm-Aschaffenburg (Bavaria)
Westinghouse, London	Westinghouse Brake Co. , Canal Rd., King's Cross, N.
Wheels, Manchester	Fletcher John, & Son , Eagle Foundry, Salford, Manchester
Whitefield, Glasgow	Ross & Duncan , Govan, Glasgow
Wiggins, Minories, London ..	Wiggins F., & Sons , 10, Tower Hill, and 102 and 103, Minories, E.C.
Wilkinsons, Engineers, Keighley	Wilkinson G., & Sons , Bradford Rd. Tool Works, Keighley
Willans, Rugby	Willans & Robinson, Ltd. , Rugby, Warwickshire
Willoox, Southwark St., Ldn.	Willoox W. H., & Co., Ltd. , 23, Southwark St., S.E.
Windlass, Glasgow	Napier Bros., Ltd. , 100, Hyde Park St., Glasgow
Wirop, Liverpool	Warrington Wire Rope Works, Ltd. , Liverpool
Witwy, London	Witty & Wyatt, Ltd. , 88, Leadenhall St., E.C.
Woodfield, Liversedge	Fleming, Birkby & Goodall, Ltd. , Woodfield Mills, Liversedge
Woodite, Mitcham	Woodite Works , Mitcham Common, Surrey
Works, Manchester	Barlow H. B., & Co. , Cornbrook Works, Manchester
Works, Wickham Market	Whitmore & Binyon , Wickham Market
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Wygo, London	Bradley Pulverizer Co. , 37, Walbrook, E.C.
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Yates, Blackburn	Yates & Thom , Blackburn, Lancashire
Yola, London	Edwards & Co. , Millwall, E.
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Yttrium, London	Berend O., & Co., Ltd. , Dunedin House, Basinghall Avenue, E.C.
Zero, Dorby	Haslam Foundry & Engineering Co., Ltd. , Derby
Zero, Derby	Pontifex & Wood, Ltd. , Union Foundry, Derby

1906

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"ENGINEERING" DIRECTORY.

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No. 42.—NEW SERIES.

COMPILED AND CLASSIFIED
FROM THE
CURRENT ADVERTISEMENTS
IN
"ENGINEERING;"
TOGETHER WITH THE
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS
OF THE ADVERTISERS.

APRIL, 1906.

Office:
"ENGINEERING," LIMITED,
35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.
[ENTERED AT STATIONERS' HALL.]

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Full information as to the machines, appliances, and manufactured produce comprised in this Directory, will be found in the columns of "ENGINEERING," in which Journal the advertisements referred to appear, either in consecutive issues or at intervals. This may be ascertained by referring to the Alphabetical Index on page 5 of the Advertisement Sheets in each week's issue.

Copies of this Directory are gratuitously sent to the **PRINCIPAL EMPLOYERS AND SHIPPERS OF MACHINERY** at home and abroad, to **FOREIGN AND BRITISH CONSULS**, and to the **HEADS of DEPARTMENTS** of the **MOST IMPORTANT RAILWAYS** throughout the world; also to the **MEMBERS and ASSOCIATES of THE INSTITUTIONS OF CIVIL AND MECHANICAL ENGINEERS**, the **IRON AND STEEL INSTITUTE**, and the other leading **SCIENTIFIC SOCIETIES** having any connection with the **ENGINEERING TRADES**. Thus, in addition to the advantages already secured to the Advertisers in "ENGINEERING," by its large and influential circulation, special facilities are afforded for bringing them and probable purchasers into direct communication.

At the end of this Directory will be found a List of the registered Telegraph Addresses, Key to same, and Telegraph Codes in use by Firms now advertising in "ENGINEERING," also of the Telephone Numbers in their respective towns.

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For Advertisement and Subscription Rates, see page 3 of this Cover.

May 18 08
CENTURY ASSOC.

CLASSIFIED DIRECTORY
OF
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VOL. LXXVIII.—No. 2021.]

LONDON: FRIDAY, SEPTEMBER 23, 1904.

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By Post 9d.]

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On Admiralty and War Office Lists.
ENGINEERS for Turbine Pumps, Turbines, Locomotives,
BOILER FEED PUMPS.
See Illustrated Advertisement, page 12.

PATENT WATER-TURBINE BOILERS.

AUTOMATIC FEED REGULATORS.
And Auxiliary Machinery as supplied to the Admiralty.

James Russell & Sons, Ltd.,

CHERRY TREE WORKS, WEDNESBURY.
IRON AND STEEL TURBINE AND PUMPING for marine
STEAM RAILS, COCKS AND VALVES.
STEAM-RAIL AND STEAM-RAIL PUMPS, etc.
See Advertisement, page 12.

Robey & Co.,

LIVERPOOL.
STEAM ENGINES.

See Advertisement, page 12.

Johnson & Phillips, Telegraph

AND ELECTRIC LIGHT ENGINEERS.
In Victoria, B.C., Canada.
Engineers of Machinery, etc., for complete equipment of
Cable, Electric, and Gas Works.
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Systems of Power Traction, Cable and Wire, etc.

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and erection of all kinds of machinery.
See Advertisement, page 12.

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See Advertisement, page 12.

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See Advertisement, page 12.

Dust Fuel Furnaces

FORCED DRAFT.
MILNERS, LONDON, and Glasgow.
See Advertisement, page 12.

RAILWAY CARRIAGES, TRAMWAY CARS, &c.

Hurst, Nelson & Co., Ltd.
The Glasgow Railway and Tramway Works.
See Advertisement, page 12.

Fuller, Horsey, Sons & Cassell,

11, MILLER SQUARE, LONDON, E.C.
(Established 1877).
ADAPTING AND REPAIRING OF
Mills and Machinery, etc.

Crane's Steam, Electric,

HYDRAULIC AND RAIL.
GEORGE CRANE & CO., Ltd.,
Manchester, and Glasgow.
See Advertisement, page 12.

Weldless-Steel Tubes

for Water, Turbine, Superheaters,
Boilers, Hydraulic Work, etc.
TUBES LIMITED, BIRMINGHAM.

Yarrow & Co., Ltd., London,

ENGINEERS AND ENGINEERS.

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Screw Steamers

Working up to 25 knots an hour.

Paddle or Screw Steamers

With draught of 4 ft. or more for river
navigation.

Cochran Boilers.

See Advertisement, page 12.

Vosper & Co., Ltd.,

BRISTOL STREET, DUBLIN.
GOLD MEDAL for all Engines for Launches, Yachts,
and Boats, shown at Paris, 1903.

Forrest & Co., Ltd.,

40, ST. MARK'S PLACE, LONDON, E.C.
SHIP, YACHT, LAUNCH AND BOAT BUILDING
AND ENGINEERING. See Illustrations, page 12.

John I. Thornycroft & Co., Ltd.,

Water-tube Boilers.
See Advertisement, page 12.

Steam Launches.

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Butters Brothers & Co.,

GLASGOW.
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Ballast Wagons for Sale or

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See Advertisement, page 12.

Locomotives in Stock.

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Castings—For Good, Sound

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Yarrow's Patent

Water-Tube Boilers.

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The Edwards Air Pump

See Advertisement, page 12.

Cartoons and Diagrams

See Advertisement, page 12.

Robt. J. Cook & Hammond

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Hunter and English,

ENGINEERS AND MILLWRIGHTS.

IRON AND BRASS POWDER, BOW, LONDON, &c.

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Boiler Tubes, Iron and Steel.

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Steel and Iron Boiler Tubes.

See Advertisement, page 12.

Large Sized Flanged Tubes

See Advertisement, page 12.

Nicholas J. West & Sons,

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Tubes and Fittings,

See Advertisement, page 12.

Stewarts and Lloyds, Ltd.,

See Advertisement, page 12.

Flexible

Metallic Tubing.

Highest Steam Pressures.

See Advertisement, page 12.

Gas and Oil Engines.

See Advertisement, page 12.

Locomotive Tank Engines

See Advertisement, page 12.

Steam Hammers (with or

without piston). Hand worked or self-acting.
See Advertisement, page 12.

Patent Evaporators and Condensers,

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Stair & Rayner,

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See's Hydraulic Ash Ejector.

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B. & S. Massey,

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Steam Hammers,

See Advertisement, page 12.

Power Hammers,

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C. & A. Munker, Ltd., Liverpool.

HYDRAULIC AND ELECTRIC MACHINERY.

Pattern Making and Gear

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Goldsworthy's Emery,

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Worthy's Emery,

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Schram's Air

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Victoria Tube Co., Ltd.,

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Tubes and Fittings.

See Advertisement, page 12.

Lifts—Safety Silence,

See Advertisement, page 12.

Archibald Smith & Stevens,

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For Sale, New Steel

See Advertisement, page 12.

The Glasgow Electric Crane

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Crane's—All Types.

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Drawings, Plans, Tracings,

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Telegraphic Address of "ENGINEERING,"
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PRINTED AT THE BEDFORD PRESS, 20 AND 21, BEDFORDSURY, LONDON, W.O.

The Publisher would esteem it a favour if persons using this Directory *would make reference thereto* in their Correspondence with Manufacturers.

CLASSIFIED DIRECTORY

OF

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Acetylene Gas.

Sun Gas Co., Ltd. 15, Tothill St., Broadway,
Westminster, S.W.

Agricultural Machinery.

Aveling & Porter, Ltd. Rochester
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Marshall, Sons & Co., Ltd. Gainsborough
Ransomes, Sims & Jefferies,
Ltd. Ipswich
Robey & Co., Ltd. Lincoln
Buston, Proctor & Co., Ltd. Sheaf Ironworks, Lincoln
Turner E. R. & F., Ltd. (132) Ipswich

Air Compressors.

Alley & Macellan, Ltd. Sentinel Works, Glasgow
Anderson Foundry Co., Ltd. Glasgow
Bailey W. H. & Co., Ltd. Salford, Manchester
Bechem & Keetman Duisburg, Germany
Belliss & Morcom Ltd. Birmingham
Brotherhood P. Belvedere Rd., S.E.
Coles H. J. Derby
Consolidated Engineering
Co., Ltd. Slough
Consolidated Pneumatic
Tool Co., Ltd. Palace Ch'brs, 9, Bridge
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Hughes & Lancaster 16, Victoria St., S.W.
Ingersoll-Rand Co. 114, Queen Victoria St.,
E.C. (E.O.)
Ingersoll-Sergeant Drill Co.
Jackman J. W. & Co., Ltd. 114, Queen Victoria St.,
Jessop & Appleby Bros.
(Leicester & London), Ltd. 39, Victoria St., S.W.
Körting Brothers Leicester & London
Lacy-Hulbert & Co. 53, Victoria St., S.W.
Leeds Engineering &
Hydraulic Co., Ltd. 25, Victoria St., S.W.
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Parsons C. A. & Co. Stamford St., Leeds
Reader E. & Sons Nottingham (on-Tyne
Reavell & Co., Ltd. Heaton Wks., Newcastle
Richards Geo., & Co., Ltd. Phoenix Wks., Nottingham
Sohram, Harker & Co. Ipswich
Scott Geo., & Son (London),
Ltd. Broadheath, near Man-
Thwaites Bros., Ltd. chester
Cannon St. House, E.C.

Air Compressors.—Continued.

Tilghman's Patent Sand } Broadheath, near Man-
Blast Co., Ltd. } chester
Vauxhall & West Hydraulic
Engineering Co., Ltd. 45, Leadenhall St., E.C.
Walker Bros. (Wigan), Ltd. Wigan
Watson Henry, & Sons High Bridge Works, New-
Westinghouse Brake Co., (castle-on-Tyne
Ltd. York Rd., King's Cross, N.
Worthington Pump Co., 153, Queen Victoria St.,
Ltd. E.O.

Air Pumps.

Belliss & Morcom Ltd. Birmingham
Edwards Air Pump Syndi- } 8 & 5, Crown Court, Old
cate, Ltd. } Broad St., E.C.
Manlove, Allott & Co., Ltd. Nottingham
Mirreles, Watson Co., Ltd. Scotland St., Glasgow
Parsons Marine Steam Tur- } Turbinia Works, Walls-
bine Co., Ltd. } er
Stott M. S. & Co. Haslingden, nr. Manches-
Watson Henry, & Sons High Bridge Works, New-
Worthington Pump Co., castle-on-Tyne
Ltd. 153, Queen Victoria St.,
E.C.

Alloys.—(See Metals, &c.)

Aluminium.

British Aluminium Co., } 9, Victoria St., West-
Ltd. } minster, S.W.

Ammeters.

Nalder Bros. & Thompson,
Ltd. 34, Queen St., E.O.

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Kynoch Limited Witton, Birmingham

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Newcastle-on-Tyne
Steel Co. of Scotland, 23, Royal Exchange
Ltd. Square, Glasgow
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Albert Sq., Manchester

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Cannell Laird & Co. Ltd.	Sheffield
Vickers, Sons & Maxim, Ltd.	Sheffield

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Billington & Newton ..	Longport, Staffordshire
Cape Asbestos Co., Ltd. .	8, Minorities, E.C.
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Moor & Co.	41, John Dalton St., Manchester
Smith Bros. & Co. . . .	Hyson Green Works, Nottingham
Witty & Wyatt, Ltd. . .	88, Leadenhall St., E.C.

Ash Ejectors.

Trewent F. J.	43, Billiter Buildings, E.C.
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Astronomical Instruments.—(See *Instruments, Surveying*.)**Auctioneers (Engineering).**

Fuller, Horsey, Sons & Cassell	11, Billiter Square, E.C.
Kirk W., Price & Co. . .	46, Watling St., E.C.; and Albert Sq., Manchester

Axles.

Baume & Merpent . . .	Moyaux, Haine - St. Pierre, Belgium
Bessemer Henry, & Co., Ltd.	Sheffield
Brown, Bayley's Steel Works, Ltd.	Sheffield
Brown John, & Co., Ltd. .	Sheffield
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Jessop W., & Sons, Ltd. .	Sheffield
Nicaise & Delcuve (Société Anonyme)	La Louvière, Belgium
Patent Shaft & Axletree Co., Ltd.	Wednesbury

Barrows.

Mackies Ltd.	Berks Ironworks, Reading
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Bars (Steel and Iron).

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Andrews Thomas, & Co.	St. James St., Sheffield
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Glasgow Iron & Steel Co., Ltd.	Wishaw Iron & Steel Works, Wishaw
Firth William, Ltd. . . .	Water Lane, Leeds

Bars (Steel and Iron).—*Continued.*

Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Jessop W., & Sons, Ltd. .	Sheffield
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Leeds Forge Co., Ltd. .	Leeds
Motherwell Iron & Steel Co., Ltd.	Motherwell, Scotland
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Shelton Iron, Steel & Coal Co., Ltd.	Stoke-on-Trent, & 122, Cannon St., E.C.
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Steel Co. of Scotland, Ltd.	23, Royal Exchange Sq., Glasgow
Trussed Concrete Steel Co. of England	11, Tothill St., S.W.

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Empire Roller Bearings Co., Ltd.	15, Victoria St., Westminster, S.W.
Hoffmann Manufacturing Co., Ltd.	Chelmsford
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Hendry James	Bridgeton, Glasgow
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Tullis John, & Son, Ltd. .	Glasgow
Webb & Son	Combs Tannery, Stowmarket
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.

Bleaching Machinery.

Edmeston A., & Sons . .	Patricroft, nr. Manchester
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Blinds.

Laycock W. S., Ltd. . .	Millhouses, Sheffield
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Blowers.—(See *Fans*.)**Boiler Compositions.**—(See *Disincrustants*.)**Boiler Coverings.**—(See *Non-conducting Compositions*.)

Boiler Furnaces.

Bennis Ed., & Co., Ltd.	Bolton
Brown John, & Co., Ltd.	Sheffield
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Leeds Forge Co., Ltd.	Leeds
Masons Gas Power Co., Ltd.	Alma Wks., Levenshulme
Meldrum Bros., Ltd.	Timperley, nr. Manchester

Boiler Inspection Societies.

Manchester Steam Users' Association	9, Mount St., Manchester
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Boiler Insurance Companies.

Vulcan Boiler & General Insurance Co., Ltd.	67, King St., Manchester
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Boiler Manholes.

Galloways Ltd.	Manchester
Leeds Forge Co., Ltd.	Leeds [Glasgow]
M'Neill C.	Kinning Park Ironworks, Springhill, Birmingham
Piggott Thos., & Co., Ltd.	

Boiler Mountings.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Bailey W. H., & Co., Ltd.	Salford, Manchester
Hillington & Newton	Longport, Staffordshire
Cambridge Scientific Instrument Co., Ltd.	Cambridge
Consolidated Eng. Co., Ltd.	Slough
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Green & Boulding, Ltd.	28, New Bridge St., E.C.
Hopkinson J., & Co., Ltd.	Huddersfield
Howden James, & Co.	Scotland St., Glasgow
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Russell James, & Sons, Ltd.	Crown Tube Wks., Wednesbury

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Smith Sydney, & Sons	Basford Brass Works, Nottingham
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Storey I., & Sons	Manchester (lampton)
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Treasure J. B., & Co.	Bishopbriggs, Glasgow
Turnbull Alex., & Co., Ltd.	

Boilers (Petroleum).

Green & Boulding, Ltd.	28, New Bridge St., F.O
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Boilers (Steam).

Abbot John, & Co., Ltd.	Gateshead-on-Tyne
Abbott & Co. (Newark), Ltd.	Newark-on-Trent
Anderton & Sons	Accrington
Bellamy John, Ltd.	Millwall, E.
Bodley Brothers & Co.	Exeter
Burnet L., & Co.	Govan, Glasgow
Burrell C., & Sons, Ltd.	Thetford
Chaplin Alex., & Co.	Govan, Glasgow

Boilers (Steam).—Continued.

Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Clayton Son, & Co., Ltd.	Leeds City Boiler Works, Annan, N.B.
Cochran & Co., Annan, Ltd.	Annan, N.B.
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Coltman Walter W., & Co.	Central Boiler Works, Loughborough
Oraig A. F., & Co., Ltd.	Paisley, N.B.
Dalglis A. & W.	Pollokshaws, Glasgow
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Day, Summers & Co., Ltd.	Southampton
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Galloways Limited	Leiston Works, Suffolk
Garrett R., & Sons, Ltd.	
Grantham Boiler & Crank Co., Ltd.	Grantham
Green Thomas & Son, Ltd.	Smithfield Ironworks, Leeds; and New Surrey Works, Southwark St., Paisley, N.B. [S.E.]
Hanna, Donald & Wilson..	Linden vor Hannover, Germany
Hannoversche Maschinenbau-Aktien-Gesellschaft vormals Georg Egestorff	
Hartley & Sudgen, Ltd.	Halifax
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hayes Edward	Stony Stratford, Wolver-Cassel, Germany [ton
Henschel & Sohn	Grantham
Hornby R., & Sons, Ltd.	Scotland St., Glasgow
Howden James, & Co.	
Isca Foundry & Engineering Co.	Newport, Mon.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Kincaid John G., & Co.	Greenock, Scotland
Lees T. & R...	Hollinwood, near Manchester
Lumby, Son & Wood, Ltd.	Greetland, near Halifax
Marshall, Sons & Co., Ltd.	Gainsborough
McKie & Baxter	Govan, Glasgow
Merryweather & Sons	63, Long Acre, W.C.
Mumford A. G., Ltd.	Culver St. Ironworks, Colchester
Napier Brothers, Ltd.	100, Hyde Park St., Glas-Havre, France [gow
Normand A., & Co.	Palmerston Ho., Bishops-gate St., E.C.
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Schram, Harker & Co.	Cannon St. House, E.C.
Sinclair George	Albion Boiler Works, Leith, N.B.
Smedley Brothers, Ltd.	Belper
Smith A. & W., & Co., Ltd.	Eglington Engine Works, Glasgow
Tangyes Limited	Birmingham

**Boilers (Steam).—Continued.**

Thompson John	Wolverhampton
Thornycroft J. I., & Co., Ltd.	Chiswick, W., and Southampton
Toward T., & Co.	9, St. Lawrence, Newcastle-on-Tyne
Turner E. R. & F., Ltd. ..	(182) Ipswich
Vosper & Co., Ltd. ..	Portsmouth
Yarrow & Co., Ltd. ..	Poplar, E.

Boilers (Water-tubo).

Babcock & Wilcox, Ltd. ..	Oriel House, Farringdon
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Hernby R., & Sons, Ltd. ..	Grantham
Mumford A. G., Ltd. ..	Culver St. Ironworks, Colchester
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Penman & Co. ..	Strathclyde St., Glasgow
Rowland B. R., & Co., Ltd.	Reddish, nr. Manchester
Stirling Boiler Co., Ltd. ..	Motherwell, Scotland
Thornycroft J. I., & Co., Ltd.	Chiswick, W., and Southampton
Yarrow & Co., Ltd. ..	Poplar, E.

Belt and Nut-Making Machinery.

Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hascneclever C. W., Söhne	Düsseldorf, Germany
Platt Samuel, Ltd.	Wednesbury

Belts, Rivets, Nuts, Screws, &c.

Armstrong, Stevens & Son	Whitall St., Birmingham
Bayliss, Jones & Bayliss, Ltd.	Wolverhampton
Galloways Limited ..	Manchester
Guest, Keen & Nettlefolds, Ltd.	16, Broad St., Birmingham
MacLellan P. & W., Ltd. ..	Clutha Ironwks., Glasgow
Phoenix Bolt & Nut Co. ..	Handsworth, near Birmingham

Boring Tools and Machinery.

Warner R., & Co.	97, Queen Victoria St., E.C.
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Brakes (Railway).

Consolidated Engineering Co., Ltd.	Slough
Stableford & Co., Ltd. ..	Coalville
Vacuum Brake Co., Ltd. ..	22, Queen Victoria St., E.C.
Westinghouse Brake Co., Ltd.	York Rd., King's Cross, N.

Brass Founders and Brass Finishers.

Abbot John, & Co., Ltd. ..	Gateshead-on-Tyne
Asbestos Co., Ltd. (Bell's)	59, Southwark St., S.E.
Bailey W. H., & Co., Ltd.	Salford, Manchester
Baker Blower Engineering Co.	Stanley St., Wicker, Sheffield
Billington & Newton ..	Longport, Staffordshire
Bodley Brothers & Co. ..	Exeter
Broughton Copper Co., Ltd.	Manchester
Crosby Steam Gage & Valve Co.	147, Queen Victoria St., E.C.
France & Morgan	Govan, Glasgow
Hunter & English ..	Bow, E.
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Pulsometer Engineering Co., Ltd. ..	Nine Elms Ironworks, Reading

Brass Founders and Brass Finishers.—Continued.

Schäffer & Budenberg, Ltd.	Whitworth St., London Rd., Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Smith Bros. & Co.	Hyson Green Works, Nottingham
Smith Sidney, & Sons ..	Basford Brass Works, Glasgow
Steven & Struthers ..	[Nottingham]
Storey I., & Sons, Ltd. ..	Manchester

Bread-Making Machinery.

Drysdale & Co.	Bon Accord Eng. Wks., Glasgow
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Brewery Plant.

Blair, Campbell & McLean, Ltd.	Woodville St., Govan, Glasgow
Hunter & English	Bow, E.
Pontifex & Wood, Ltd. ..	Union Foundry, Derby

Brick and Tile-Making Machinery.

Bradley & Craven, Ltd. ..	Westgate Common Foundry, Wakefield
Brightside Foundry & Engineering Co., Ltd.	28, Victoria St., Westminster, S.W.
Vereinigte Servais-Werke A.G.	Ehrang bei Trier, Germany
Whittaker C., & Co., Ltd.	Accrington

Bricks.

Stein John G., & Co. ..	Castlecary, near Glasgow
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Bridge Foundation Cylinders.

Clay Cross Co.	Clay Cross, near Chester
Hanna, Donald & Wilson ..	Paisley [field]
Ioca Foundry & Eng. Co. ..	Newport, Mon.
Tees Side Bridge & Engineering Works, Ltd. ..	Middlesbrough

Bridges.

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Arrol's Bridge & Roof Co., Ltd.	Germiston Wks., Glasgow
Ashmore Benson, Pease & Co., Ltd.	Stockton-on-Tees
Baume & Merpent	Moyaux, Haine-St.-Pierre, Belgium
Cleveland Bridge & Engineering Co., Ltd.	Darlington
Clyde Structural Iron Co., Ltd.	Clydeside Ironworks, Scotstoun, Glasgow
Compagnie Centrale de Construction, Ltd.	Dashwood House, New Broad St., E.C.
De Berque & Co., Ltd. ..	Manchester
Finch Edward, & Co., Ltd.	Chepstow
Guthofnungshütte Coal, Iron, Steel & Eng. Co.	Oberhausen-2, Rhineland
Handyside Andrew, & Co., Ltd.	Britannia Ironworks, Derby
Hanna, Donald & Wilson ..	Paisley
Head, Wrightson & Co., Ltd.	Teesdale Ironworks, Thornaby-on-Tees
Heenan & Froude, Ltd. ..	Manchester

Bridges.—Continued.

Hill & Smith	Brierley Hill Ironworks, [near Dudley, Staffs.]
Isco Foundry & Engineering Co., Ltd.	Newport, Mon.
Lysaght John, Ltd.	St. Vincent Ironworks, Bristol [Glasgow]
Mechan & Sons, Ltd.	Scotstoun Iron Works, Motherwell, N.E.
Motherwell Bridge Co., Ltd.	
Nicaise & Delcuve (Société Anonyme) ..	La Louvière, Belgium
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Smith A. & W., & Co., Ltd.	Eglington Engine Works, [Glasgow]
Tees Side Bridge & Engineering Works, Ltd. ..	Middlesbrough

Buffers.

Brown John, & Co., Ltd.	Sheffield
Hill & Smith	Brierley Hill Iron Works, [near Dudley, Staffs.]
Midland Railway Carriage and Wagon Co., Ltd.	Abbey Wks., Shrewsbury
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Turton T., & Sons, Ltd.	Sheaf Works, Sheffield

Buoys (Iron and Steel).

Bellamy John, Ltd.	Millwall, E.
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Cable Making and Wire Covering Machinery.

Johnson & Phillips, Ltd.	Victoria Works, Old Charlton, Kent
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Cables (Electric Light, Telegraph and Telephone).

British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
Johnson & Phillips, Ltd.	14, Union Court, Old Broad St., E.C.

Calcium.

Elektrochemische Werke, G.m.b.H.	Bitterfeld, Germany
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Calculating Machines.

Felt & Tarrant Mfg. Co.	Illinois & Orleans Streets, Chicago, U.S.A.
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Capstans (Steam and Hydraulic).

Benrath Engineering Co.	36, Victoria St., S.W.
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Campbell & Calderwood ..	Soho Engine Wks., Paisley
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Fielding & Platt, Ltd.	Gloucester
Gyde Windlass Co.	Bath, Maine, U.S.A.
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Napier Bros., Ltd.	Hyde Park St. Works, [Glasgow]
Sandycroft Foundry Co., Ltd.	Near Chester
Tannett Walker, & Co., Ltd.	Leeds

Carbons for Electrical Purposes (Manufacturers of).

Johnson & Phillips, Ltd.	14, Union Court, Old Broad St., E.C.
Le Carbone ..	17, Water Lane, Great Tower St., E.C.

Carriage (Railway) Builders.

Baume & Marpent ..	Moyaux, Haine - St. - Pierre, Belgium
Brush Elect. Eng. Co., Ltd.	Falcon Wks., Loughboro'
Compagnie Centrale de Construction, Ltd.	Dashwood House, New Broad St., E.C.
Glasgow Railway Engineering Co., Ltd.	Govan, Glasgow
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
MacLellan P. & W., Ltd.	Clutha Works, Glasgow
Metropolitan Amalgamated Railway Carriage & Wagon Co., Ltd.	Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Ltd.	Abbey Wks., Shrewsbury
Nicaise & Delcuve (Société Anonyme) ..	La Louvière, Belgium
Peebles Steam Car Co., Ltd.	25, Victoria St., S.W.

Carriage (Railway) Fittings.

Kaye Joseph, & Sons, Ltd.	93, High Holborn, W.C.
Laycock W. S., Ltd.	Victoria Works, Sheffield

Cartridge-Making Machinery.

Greenwood & Batley, Ltd.	Armley Rd., Leeds
Taylor & Challen, Ltd.	Birmingham

Case-Hardening Composition.

Miller Hy., & Co., Ltd.	Millgarth Works, Leeds
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Castings (Iron).

Abbot John, & Co., Ltd.	Gateshead-on-Tyne
Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Baker Blower Engineering Co.	Stanley St., Wicker, Shef- field
Bayliss, Jones & Bayliss, Ltd.	Wolverhampton
Bodley Brothers & Co.	Exeter
Clay Cross Co.	Clay Cross, nr. Chest'field
Compagnie Centrale de Construction, Ltd.	Dashwood House, New Broad St., E.C.
Oraig A. F., & Co., Ltd.	Paisley, N.B.
Darlington Forge Co., Ltd.	Darlington
Finch Edward, & Co., Ltd.	Chepstow
Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.	Oberhausen-2, Rhineland
Haley E. & W. H.	Lister Hills, Bradford
Handyside A., & Co., Ltd.	Derby
Haniel & Lueg ..	Düsseldorf, Germany
Head, Wrightson & Co., Ltd.	Teesdale Ironworks, Thornaby-on-Tees
Herbert Alfred, Ltd.	Coventry
Hunter & English ..	Bow, E.
Isco Foundry & Engineering Co.	Newport, Mon.
Jones George, Ltd.	Lionel St., Birmingham
Mackies Ltd.	Berks Ironwks., Reading
Midland Railway Carriage & Wagon Co., Ltd.	Abbey Wks., Shrewsbury
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Ransome A., & Co., Ltd.	Newark-on-Trent
Rose, Downs & Thompson	Old Foundry, Hull
Sheepbridge Coal & Iron Co., Ltd.	Chesterfield
Storey I., & Sons, Ltd.	Manchester
Summerson Thomas, and Sons, Ltd.	Darlington

Castings (Iron).—Continued.

Unbreakable Pulley & Mill } 48, West Gorton, Man-
Gearing Co., Ltd. } chester
Walker Bros. (Wigan), Ltd. } Pagefield Ironworks,
Wallwork Henry, & Co., Ltd. } Manchester [Wigan

Castings (Malleable Iron).

Hadfield's Steel Foundry }
Co., Ltd. } Hecla Works, Sheffield
Handyside A., & Co., Ltd. } Britannia Ironwks., D'rby
Parker Foundry Co. } Derby
Tangyes Limited } Birmingham
Wallwork Henry, & Co., Ltd. } Manchester

Castings (Steel).

Allen Edgar, & Co., Ltd. } Sheffield
Ashmore, Benson, Pease & }
Co., Ltd. } Stockton-on-Tees
Ashman Bros. & Wilson, Ltd. } Sheffield
Baker Blower Engineering } Stanley St., Wicker, Shef-
Co. } field
Bayliss, Jones & Bayliss, Ltd. } Wolverhampton
Beasmer Henry, & Co., Ltd. } Sheffield
Brown, Bayley's Steel }
Works, Ltd. } Sheffield
Brown John, & Co., Ltd. } Sheffield
Cammell Laird & Co. Ltd. } Sheffield
Colville David, & Sons, Ltd. } Motherwell, nr. Glasgow
Compagnie Centrale de }
Construction, Ltd. } Broad St., E.C.
Darlington Forge Co., Ltd. } Darlington
Fairley James, & Sons } Shadwell St., Birmingham
Firth Thos., & Sons, Ltd. } Norfolk Works, Sheffield
Guthoffnungshütte Coal, }
Iron, Steel & Engineering } Oberhausen-2, Rhineland
Co. }
Hadfield's Steel Foundry }
Co., Ltd. } Hecla Works, Sheffield
Haniel & Lueg } Düsseldorf, Germany
Jackson P. R., & Co., Ltd. } Salford Rolling Mills,
Jesse Wm., & Sons, Ltd. } Sheffield [Manchester
Jones George, Ltd. } Lionel St., Birmingham
Kynoch Limited } Witton, Birmingham
Nye Arthur W. } 110, Cannon St., E.C.
Oaking & Co. } Düsseldorf, Germany
Parker Foundry Co. } Derby [House, E.C.
Reichwald August } Finsbury Pavement
Rogerson John, & Co., Ltd. } Wolsingham, R.S.O., Co.
Durham
Spencer John, & Sons, Ltd. } Newburn Steel Works,
Newcastle-on-Tyne
Stableford & Co., Ltd. } Coalville
Steel Co. of Scotland, Ltd. } 23, Royal Exchange
Summerson Thomas, and } [Square, Glasgow
Sons, Ltd. }
Vickers Sons & Maxim, Ltd. } Darlington
Sheffield

Cement.

Greaves, Bull & Lakin, Ltd. } Harbury, Leamington
Peters Brothers } 34, Victoria St., S.W.
Smooth-on Mfg. Co. } Jersey City, N.J., U.S.A.
Wouldham Cement Co. }
(1900), Ltd. } 35, Gt. St. Helen's, E.C.

Cement-Making Plant.

Aveling & Porter, Ltd. } Rochester
Klinger Richard, & Co. } 66, Fenchurch St., E.C.

Cement-Making Plant.—Continued.

Krupp Aktiengesellschaft }
Grusonwerk } Magdeburg-Buckau
Pulsmeter Engineering } Nine Elms Ironworks,
Co., Ltd. } Reading
Stamm W. (Krupp Aktien- }
gesellschaft Grusonwerk) } 25, College Hill, E.C.

Centrifugal Drying Machines.

Manlove, Allott & Co., Ltd. } Nottingham
Pott, Cassels & Williamson } Motherwell, nr. Glasgow
Watson, Laidlaw & Co. } Glasgow

Chains and Cables.

Abbot John, & Co., Ltd. } Gateshead-on-Tyne
Bechem & Keetman } Duisburg, Germany
Dempster, Moore & Co., Ltd. } 49, Robertson St., Glasg'w
Wright Jos., & Co. } Tipton, Staffordshire

Chains (Gearing).

Bagshaw & Co. } 3, Tower Royal, Cannon
St., E.C.

Chemical Works (Plant for).

Masons Gas Power Co., Ltd. } Alma Wks., Levenshulme
Piggott Thos., & Co., Ltd. } Birmingham
Williams J. Arthur } 92, Hatton Garden, E.C.

Chimneys.

Custodis Alphonso, Co. } 119, Victoria St., S.W.
Heinrich, Winby & Co. } 20, King William St., E.C.
Tees Side Bridge & En- }
gineering Works, Ltd. } Middlesbrough

Chucks.

Taylor Charles } Bartholomew St., Bir-
mingham

Cloth Finishing Machinery.

Oralg A. F., & Co., Ltd. } Paisley, N.B.

Clutches (Friction).

Bagshaw J., & Sons, Ltd. } Batley [ford
Bever, Doring & Co., Ltd. } Bowling Ironwks., Brad-
Bridge D., & Co. } Castleton, nr. Manchester
Consolidated Engineering }
Co., Ltd. } Slough
Cowlshaw, Walker & Co., }
Ltd. } Etruria, Stoke-on-Trent
Croft & Perkins } Thornberry Rd., Bradford
Edmeston A., & Sons } Patricroft, nr. Mancheste.
Kay James C., & Co., Ltd. } Barnbrook Works, Bury,
Lancs.

King H. J. H., & Co. } Nailsworth, Glos.
Napier Brothers, Ltd. } 100, Hyde Park St.,
Glasgow
Unbreakable Pulley & Mill } 48, West Gorton, Man-
Gearing Co., Ltd. } chester

Clutches (Magnetic).

Drake & Gorham, Ltd. } 66, Victoria St., S.W.

Coal Handling Plant.

Reddaway F., & Co., Ltd. } Pendleton, Manchester

Cocks.—(See *Valves, Gas, Steam, Water, &c.*)**Coffee Machinery.**

Waygood & Co., Ltd. .. Falmouth Rd., S.E.

Coining Machinery.

Taylor & Challen, Ltd. .. Birmingham

Coke Rams.

Ransomes & Rapier, Ltd. Ipswich

Colliery Plant.

Abbot John, & Co., Ltd. .. Gateshead-on-Tyne
 Bennis Ed., & Co., Ltd. .. Bolton
 British Westinghouse Electric and Mfg. Co., Ltd. .. Norfolk St., Strand, W.C.
 Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.
 Clay Cross Co. .. Clay Cross, near Chester
 Davidson & Co. .. Hulme [field]
 Finch Edward, & Co., Ltd. .. Chepstow
 Gibbons Bros., Ltd. .. Dudley, Worcestershire
 Gutehoffnungshütte Coal, Iron, Steel & Eng. Co. .. Oberhausen-2, Rhineland
 Hadfield's Steel Foundry Co., Ltd. .. Hecla Works, Sheffield
 Hathorn, Davey & Co., Ltd. .. Leeds
 Head, Wrightson & Co., Ltd. .. Teesdale Ironworks, Thornaby-on-Tees
 Hornsby R. & Sons, Ltd. .. Grantham
 Iles Foundry & Engineering Co. .. Newport, Mon.
 Jessop Wm., & Sons, Ltd. .. Sheffield
 Lidgerwood Mfg. Co. .. Caxton House, Westminster, S.W.
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester
 Renshaw W. R., & Co., Ltd., Trustees of .. Stoke-on-Trent
 Sandycroft Foundry Co., Ltd. .. Nether Chester
 Tees Side Bridge & Engineering Works, Ltd. .. Middlesbrough [Wigan
 Walker Bros. (Wigan), Ltd. .. Patefield Ironworks,

Colliery Proprietors.

Brown John, & Co., Ltd. .. Sheffield [field]
 Clay Cross Co. .. Clay Cross, near Chester
 Glasgow Iron & Steel Co., Ltd. .. Wishaw Iron & Steel Works, Wishaw
 Gutehoffnungshütte Coal, Iron, Steel & Eng. Co. .. Oberhausen-2, Rhineland

Compasses.

Negretti & Zambra .. 38, Holborn Viaduct, E.C.
 Salmoiraghi A., & C. .. Milano, Italy

Composition for Covering Boilers, &c.—
(See *Non-Conducting Composition.*)**Compressed Gases (Bottles & Fittings for).**

Scotch & Irish Oxygen Co., Ltd. .. Rosehill Works, Glasgow

Concrete Mixers.

Jessop & Appleby Bros. (Leicester & London), Ltd. .. Leicester & London
 Mason Brothers .. Brandon St., Leicester
 Wilson John H., & Co., Ltd. .. Sandhills, Liverpool

Concrete (Reinforced).

Cubitt William, & Co. .. 258, Gray's Inn Rd., W.C.
 Custodis Alphons, Co. .. 119, Victoria St., S.W.
 Trussed Concrete Steel Co. of England .. 11, Tothill St., S.W.

Condensers (Fresh Water).—See *Distilling (Water) Apparatus.***Condensers (for Steam Engines).**

Allen W. H., Son, & Co., Ltd. Bedford
 Balcke & Co. .. 27, Clement's Lane, E.C.
 Belliss & Morcom Ltd. .. Birmingham
 Boby William .. Salisbury House, London Wall, E.C.
 Caird & Rayner .. 777, Commercial Rd., E.
 Campbell & Calderwood .. Soho Engine Wks., Paisley
 Craig A. F., & Co., Ltd. .. Paisley
 Davey, Paxman & Co., Ltd. .. Colchester
 Fraser & Chalmers, Ltd. .. 3, London Wall Buildings, Leamouth [E.C.
 Fraser Douglas, & Sons .. Smithfield Ironworks, Leeds; & New Surrey Wks., Southwark St., S.E.
 Green Thomas, & Son, Ltd. ..

Hall J. P., & Sons, Ltd. .. Peterborough [E.C.
 Hayward-Tyler & Co., Ltd. .. 99, Queen Victoria St., 101, Leadenhall St., E.C.
 Kirkaldy John, Ltd. ..
 Klein Engineering Co., Ltd. .. 94, Market St., Manchester
 Körting Bros., Ltd. .. 53, Victoria St., S.W.
 Ledward & Beckett, Ltd. .. Sanctuary House, Tothill St., Westminster, S.W.
 Mirrieles Watson Co., Ltd. .. Scotland St., Glasgow
 Parsons Marine Steam Turbine Co., Ltd. .. Turbina Works, Wallsend-on-Tyne
 Piggett Thos., & Co., Ltd. .. Springhill, Birmingham
 Pulsometer Engineering Co., Ltd. .. Nine Elms Ironworks, Reading
 Reader E., & Sons .. Phoenix Wks., Nottingham
 Royles Limited .. Irlam, near Manchester
 Scott Ernest, & Mountain, Ltd. .. Close Works, Newcastle-on-Tyne [ter
 Stott S. S., & Co. .. Haslingden, nr. Manchester
 Wheeler Condenser and Engineering Co. .. 2 & 3, Norfolk St., Strand, W.C.
 Williams J. Arthur .. 92, Hatton Garden, E.C.
 Worthington Pump Co., Ltd. .. 165, Queen Victoria St., E.C.

Conveyors.

Bennis Ed., & Co., Ltd. .. Bolton
 Benrath Engineering Co. .. 36, Victoria St., S.W.
 Bleichert Adolf, & Co. .. 76, Cheapside, E.C.
 Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.
 Conveyor & Elevator Co. .. Accrington, Lancashire
 Dunlop Rubber Co., Ltd. .. Aston, Birmingham
 Gibbons Bros., Ltd. .. Dudley, Worcestershire
 Glasgow Electric Crane and Hoist Co., Ltd. .. Parkhead, Glasgow
 Greenwood & Batley, Ltd. .. Albion Works, Leeds
 Lidgerwood Mfg. Co. .. Caxton House, Westminster, S.W.
 Pohlig J., Ltd. .. Cologne [minster, S.W.
 Pott, Cassels & Williamson .. Motherwell, nr. Glasgow
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester
 Selig, Sonenthal & Co. .. 85, Queen Victoria St., E.C.
 Temperley Transporter Co. .. 72, Bishopgate St.
 Watson, Laidlaw & Co. .. Glasgow [Within, E.C.
 Whittaker C., & Co., Ltd. .. Accrington

Cooking Apparatus.

Summerscales W., & Sons, } Phoenix Foundry, Keigh-
 Ltd. } ley

Copper Ingots, Bars and Sheets.

Broughton Copper Co., Ltd. Manchester

Coppersmiths.

Abbot John, & Co., Ltd. . . Gateshead-on-Tyne
 Birmingham Battery &
 Metal Co. Birmingham
 Elmore's Metall A.G. . . . Schladerm, Sieg, Germany
 Storey I., & Sons, Ltd. . . Manchester

Copying Presses.

Daniell S. A., Ltd. . . . Lion Works, Birmingham

Corrugated Boiler Furnaces.

Deighton's Patent Flue & } Vulcan Works, Pepper
 Tube Co., Ltd. . . . } Rd., Leeds
 Leeds Forge Co., Ltd. . . Leeds

Cotton Presses.

Berry Henry, & Co., Ltd. . Croydon Works, Leeds
 Coles H. J. London Crane Wks, Derby
 Greenwood & Batley, Ltd. . Armley Rd., Leeds
 Nasmyth, Wilson & Co., Ltd. Bridgewater Fdry, Patri-
 croft, near Manchester
 Piggott Thos., & Co., Ltd. Birmingham
 Rice & Co. (Leeds), Ltd. . Elland Rd., Leeds
 Stewart D. & Co. (1902), Ltd. London Rd. Ironworks,
 Tangyes Limited Birmingham [Glasgow]

Couplings (Railway).

Gibbins R. C., & Co. . . . Berkley St., Birmingham
 Roger Robert, & Co., Ltd. Stockton-on-Tees

Couplings (Shaft).

Bagshaw J., & Sons, Ltd. . . Batley, Yorkshire
 Bridge D., & Co. Castleton, nr. Manchester
 Cowlishaw, Walker & Co., Ltd. . . . Etruria, Stoke-on-Trent
 Croft & Perkins Thornberry Rd., Bradford
 Mackies Ltd. Berks Ironwks., Reading
 Smith & Grace Screw Boss
 Pulley Co., Ltd. . . . Thrapston
 Taylor & Challen, Ltd. . . Birmingham
 Unbreakable Pulley & Mill } 48, West Gorton, Man-
 Gearing Co., Ltd. . . } chester

Cranes, Travellers, Winches, &c.

Arrol Sir William, & Co., } Dalmarnock Ironworks,
 Ltd. } Bridgeton, Glasgow
 Baker Blower Engineering } Stanley St., Wicker,
 Co. } Sheffield
 Bechman & Keetman Duisburg, Germany
 Benrath Engineering Co. . . 36, Victoria St., S.W.
 Berry Henry, & Co., Ltd. . Croydon Works, Leeds
 Bleichert Adolf, & Co. . . 76, Cheapside, E.C.
 Booth Joseph, & Bros., Ltd. Rodley, Leeds
 Broadbent Thos., & Sons, Ltd. Chapel Hill, Huddersfle d
 Brown Hoisting Machinery
 Co. Cleveland, Ohio, U.S.A.
 Butters Brothers & Co. . . 20, Waterloo St., Glasgow

Cranes, Travellers, Winches, &c.—Continued.

Chaplin Alex., & Co. . . . Govan, Glasgow
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne
 Glasgow Electric Crane and
 Hoist Co., Ltd. . . . Parkhead, Glasgow
 Cochran Jno. Barrhead, N.B. [Derby
 Coles H. J. London Crane Works,
 Carlisle
 Cowans, Sheldon & Co., Ltd. Osborne St., Manchester
 Craven Brothers, Ltd. . . 49, Robertson St., Glasg'w
 Dempster, Moore & Co., Ltd. Bon Accord Engine Wks.,
 Drysdale & Co. [Glasgow]
 East Ferry Road Engineer-
 ing Works Co., Ltd. . . Millwall, E.
 Fielding & Platt, Ltd. . . Gloucester
 Gibbins R. C., & Co. . . Berkley St., Birmingham
 Godfrey J. T. 24A, High St., Lough-
 borough, Leicest'rsire
 Grafton & Co. Bedford
 Grieve John, & Co. . . . Motherwell, Scotland
 Hanna, Donald & Wilson . Paisley, N.B.
 Higginbottom & Mannock,
 Ltd. West Gorton, Manchester
 Hunter & English Bow, K.
 Isca Foundry & Eng. Co. . . Newport, Mon.
 Isles Ltd. Stanningley, Leeds
 Jackman J. W., & Co., Ltd. 39, Victoria St., S.W.
 Jessop & Appleby Bros.
 (Leicest' & London), Ltd. Leicest' & London
 Leeds Engineering & Hy-
 draulic Co., Ltd. . . . Providence Works, Cross
 Lidgetwood Mfg. Co. . . . Stamford St., Leeds
 Marshall, Fleming & Jack
 McOnie A. & P. W. . . . Caxton House, West-
 minster, S.W.
 Muirgrave Bros. Motherwell, N.B.
 Musker C. & A., Ltd. . . . Govan, Glasgow
 Napier Brothers, Ltd. . . Crown Pt. Fndry, Leeds
 Pohlig J., Ltd. Liverpool
 Ransomes & Rapier, Ltd. 100, Hyde Pk. St., Glasgow
 Rice & Co. (Leeds), Ltd. . Cologne
 Roger R., & Co., Ltd. . . Ipswich
 Rose, Downs & Thompson, Ltd. . . . Elland Rd., Leeds
 Royce Ltd. Stockton-on-Tees
 Russell George, & Co. Ltd. Old Foundry, Hull
 Selig, Sonnenthal & Co. . . Hulme, Manchester
 Smith A., & Stevens . . . Motherwell, nr. Glasgow
 Smith A. W., & Co., Ltd. 85, Queen Victoria St., E.C.
 Smith Thos., & Sons . . . Queen's Rd., Battersea,
 Stamm W. (Krupp Aktien- } S.W. [Glasgow
 gesellschaft Grusonwerk) } Eglinton Engine works,
 Stothert & Pitt, Ltd. . . Rodley, nr. Leeds
 Tangyes Limited 25, College Hill, E.C.
 Tannett Walker, & Co., Ltd. Bath
 Taylor & Hubbard Birmingham
 Veithardt & Hall, Ltd. . . Leeds
 Warden A., & Co. Leicest'ar
 Waygood & Co., Ltd. . . 41, Eastcheap, E.C.
 Whitaker Bros., Ltd. . . 60, Great Eastern St., E.C.
 Wilson John H., & Co., Ltd. Falmouth Rd., S.E.
 Wood R. D., & Co. Horsforth, near Leeds
 Youngs Sandhills, Liverpool
 Philadelphia, U.S.A.
 Birmingham

Crank Axes.

Beasmer Henry, & Co., Ltd. Sheffield
 Hadfield's Steel Foundry
 Co., Ltd. Hecla Works, Sheffield
 Jessop W., & Sons, Ltd. . . Sheffield
 Spencer John, & Sons, Ltd. Newcastle-on-Tyne

Crankshafts.

Beardmore Wm., & Co., Ltd.	Glasgow
Bessemer Hy., & Co., Ltd.	Sheffield
Brown John, & Co., Ltd.	Sheffield
Dennystown Forge Co.	Dumbarton
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hill & Smith	Brierley Hill Iron Works, near Dudley, Staffs.
Jessop W., & Sons, Ltd.	Sheffield
Richardsons, Westgarth, & Co., Ltd.	Hartlepool (Durham)
Rogerson John, & Co., Ltd.	Wolsingham, R.S.O., Co.
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Vickers, Sons & Maxim, Ltd.	Sheffield

Cream Separators.

Pott, Cassells & Williamson	Motherwell, nr. Glasgow
Watson, Laidlaw & Co.	Glasgow

Crossotting Plant.

Abbot John, & Co., Ltd.	Park Works, Gateshead.
Cowans, Sheldon & Co., Ltd.	Carlisle [on-Tyne]

Crucibles.

Doulton & Co., Ltd.	Lambeth, S.E.
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Crushing Machinery.—(See Disintegrators and Mills.)**Cupolas.**

Jackman J. W., & Co., Ltd.	39, Victoria St., S.W.
Thwaites Bros., Ltd.	Bradford

Cyanide Plant.

Daw A. & Z.	11, Queen Victoria St., E.C.
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Destructors.

Heenan & Froude, Ltd.	Newton Heath Iron works, Manchester
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Horsfall Destructor Co., Ltd.	Station Sheds, Holbeck, near Leeds
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Manlove, Alliott & Co., Ltd.	Nottingham
Masons Gas Power Co., Ltd.	Alma Wks., Levenshulme
Meldrum Bros., Ltd.	Timperley, nr. Manchester

Disinfectants.

Asbestos Co., Ltd. (Bell's)	59, Southwark St., S.E.
Robey & Co., Ltd.	Lincoln

Disinfectors.

Manlove, Alliott & Co., Ltd.	Nottingham
Tullis D. & J., Ltd.	Kilbowie Ironworks, nr. Glasgow

Disintegrators.

Askham Bros., & Wilson, Ltd.	Sheffield (E.C.)
Fraser & Chalmers, Ltd.	3, London Wall Buildings,
Jackman Joseph, & Co., Ltd.	Persberg Steel Works, Attercliffe Common, Sheffield

Disintegrators.—Continued.

Krupp Aktiengesellschaft	Magdeburg-Buckau, Ger-
Grusonwerk	many
Mason Bros.	Brandon St., Leicester
Stamm W. (Krupp Aktiengesellschaft Grusonwerk)	25, College Hill, E.C.

Distillery Plant.

Blair, Campbell & McLean, Ltd.	Woodville St., Govan, Glasgow
Fawcett, Preston & Co., Ltd.	Liverpool
Hunter & English	Bow, E.
Masons Gas Power Co., Ltd.	Alma Wks., Levenshulme
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Montifex & Wood, Ltd.	Union Foundry, Derby

Distilling (Water) Apparatus.

Caird & Bayner	777, Commercial Rd., E.
Chaplin Alex., & Co.	Govan, Glasgow
Kirkaldy John, Ltd.	101, Leadenhall St., E.C.
Liverpool Engineering and Condenser Co., Ltd.	Brunswick Dock, Liverpool
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Normandy's Patent Marine Aërated Fresh Water Co., Ltd.	Victoria Dock Rd., E.
Royles Limited	Irlam, near Manchester

Diving Apparatus.

Siebs, Gorman & Co., Ltd.	Neptune Works, S.E.
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Draw Benches.

Fielding & Platt, Ltd.	Gloucester
Jones George, Ltd.	Lionel St., Birmingham
Platt Samuel, Ltd.	Wednesbury

Drawing Instruments.

Drake & Gorham, Ltd.	66, Victoria St., S.W.
Gillott Joseph, & Sons	37, Gracechurch St., E.C.
Koop, Ernest C.	42 & 44, Moor Lane, E.C.
Liebau & Co., G.m.b.H.	Berlin W., Potsdamerstr., 10/11
Marion & Co., Ltd.	22 & 23, Soho Square, W.
Negretti & Zambra	38, Holborn Viaduct, E.C.
Salmoiraghi A., & C.	Milano, Italy
Simpson & Co.	Barrow-in-Furness
Stanley W. F., & Co., Ltd.	286, High Holborn, W.C.
Thornton A. G.	King St. West, Manchester

Drawings, Tracings, &c.

Cook Robt. J., & Hammond	2 & 3, Tothill St., S.W.
Halden J., & Co.	8, Albert Sq., Manchester
Kell T., & Son	40, King St., W.C.
Marion & Co., Ltd.	22 & 23, Soho Square, W.
Messer & Thorpe	8, Quality Court, E.C.
Shaw L.	39, Victoria St., S.W.
Stanley W. F., & Co., Ltd.	Railway Approach, London Bridge, S.E.

Dredgers (Suction).

Ferguson Brothers	Port Glasgow, N.B.
Gwynnes Ltd.	81, Cannon St., E.C.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London

Dredging Machines.

Coles H. J.	London Crane Works, Derby
Ferguson Brothers	Port Glasgow, N.B.
Fleming & Ferguson, Ltd.	Paisley, N.B.
Gwynnes Ltd.	81, Cannon St., E.C.
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hanna, Donald & Wilson . .	Paisley, N.B.
Hunter & English	Row, E.
Jackman Joseph, & Co., Ltd.	Persberg Steel Works, Attercliffe Common, Sheffield
Jessop W., & Sons, Ltd. . .	Brightside Wks., Sheffield
Lobnitz & Co., Ltd. . . .	Renfrew, Scotland
Lubecker Machine and Manufacturing Co. . . .	30, Gt. St. Helen's, E.C.
Priestman Bros., Ltd. . .	Holderness Foundry, Hull
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Simons W., & Co., Ltd. . .	Renfrew, N.B.
Smit L., & Zoon	Kinderdijk, Holland
Smulders A. F.	Schiedam, Rotterdam,
Stothert & Pitt, Ltd. . . .	Bath | Holland

Drop Forgings.—(See *Forgings*—Drop.)**Drying Apparatus.**

Manlove, Alliott & Co., Ltd.	Nottingham
Muggrave & Co., Ltd. . .	St. Ann's Ironwks., Belfast
Schwartzkopf Coal-Dust Firing Syndicate. . . .	Haydock, near St. Helens
Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., E.C.

Dust Collectors (Mills, Factories, Breweries, &c.).

Stacey Frank, & Co. . . .	Winchester House, Bir- mingham
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Dust Shields for Bearings.

Vickers Benjn. R., & Sons	Leeds
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Dynamos.—(See *Electric Lighting Plant*.)**Ebonite.**

India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	Silvertown, Essex
Reddaway F., & Co., Ltd.	Pendleton, Manchester
Winter F.	8, Redcross St., E.C.

Economisers (Fuel).

Clay Cross Co.	Clay Cross, nr. Ch'sterfield
Mechan & Sons, Ltd. . .	Scotstoun Ironwks, Gl'sg'w
Meldrum Bros., Ltd. . .	Timperley, nr. M'chester

Electric Arc Lamps.

British Westinghouse Elec- tric and Mfg. Co., Ltd. . .	Norfolk St., Strand, W.C.
Veritys	31 & 32, King St., W.C.

Electric Bells and Signals.

Bailey W. H., & Co., Ltd.	Salford, Manchester
Blackburn, Starling & Co., Ltd.	Gresham Works, Not- tingham
Spagnoletti J. E., & Co. . .	Goldhawk Rd., W.

Electric Cables.

British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	Silvertown, Essex
Johnson & Phillips, Ltd. . .	Victoria Works, Old Charlton, Kent

Electric Lighting Plant.—(See also *Switch-boards, Motor Starters and Accessories*.)

Allen W. H., Son, & Co., Ltd.	Queen's Engineering Works, Bedford
Alley & Maclellan, Ltd. . .	Sentinel Works, Glasgow
Becker R., & Co.	53, City Rd., E.C.
Belliss & Morcom Ltd.	Birmingham
British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
British Thomson-Houston Co., Ltd.	Rugby
British Westinghouse Elec- tric & Mfg. Co., Ltd. . .	Norfolk St., Strand, W.O
Canning W., & Co.	Birmingham
Clarke, Chapman & Co., Ltd.	Gateshead-upon-Tyne
Crompton & Co., Ltd. . .	London Wall, E.C.
Drake & Gorham, Ltd. . .	86, Victoria St., S.W.
Electrical Co., Ltd. . . .	121 to 125, Charing Cross Rd., W.C.

Electrical Power Storage Co., Ltd.	4, Great Winchester St., E.C.
Fairbanks, Morse & Co. . .	126, Southwark St., S.E.
Fowler J., & Co. (Leeds), Ltd.	Leeds
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hall J. P., & Co.	Oldham
Hartnell Wilson, & Co., Ltd.	Kirkstall Rd., Leeds
Howden James, & Co. . .	Scotland St., Glasgow
India Rubber, Gutta Percha & Telegraph Works Co., Ltd.	Silvertown, Essex
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester

Johnson & Phillips, Ltd. . .	14, Union Court, E.C.
Lahmeyer Electrical Co., Ltd.	109-111, New Oxford St., Norwich [W.C.]
Laurence, Scott & Co., Ltd.	17, Charing Cross Rd., W.C.
Morris-Hawkins Electrical Co., Ltd.	Liverpool
Musker C. & A., Ltd. . . .	Taunton
Newtons Ltd.	Heaton Works, Newcastle
Parsons C. A., & Co. . . .	Levensford Works, Dumb- arton
Paul Matthew, & Co., Ltd.	East Pilton, Edinburgh
Peebles, Bruce, & Co. Ltd.	Hulme, Manchester
Royce Ltd.	Close Works, Newcastle- on-Tyne
Scott Ernest, & Mountain, Ltd.	Goldhawk Rd., W.
Spagnoletti J. E., & Co. . .	147, Queen Victoria St., E.C.
Sturtevant Engineering Co., Ltd.	Oxford Works, Birming- ham
Tangye Tool & Electric Co., Ltd.	31 & 32, King St., W.C.
Veritys	Sheffield
Vickers, Sons & Maxim, Ltd.	

Electric Motors.

Allen W. H., Son & Co., Ltd.	Queen's Eng. Works, Bed- ford
Becker R., & Co.	53, City Rd., E.C.
Beyer, Peacock & Co., Ltd.	Gorton Fndry, M'ch'ster
British Thomson-Houston Co., Ltd.	Rugby
British Westinghouse Elec- tric & Mfg. Co., Ltd. . .	Norfolk St., Strand, W.C.

Electric Motors.—Continued.

Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Crompton & Co., Ltd.	Salisbury House, London Wall, E.C.
Electric & Ordnance Accessories Co.	Stellite Wks., B'mingham
Electrical Co., Ltd.	121 to 125, Charing Cross Rd., W.C.
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hartnell Wilson, & Co., Ltd.	Kirkstall Rd., Leeds
India Rubber, Gutta Percha, & Telegraph Works Co., Ltd.	Silvertown, Essex
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester
Johnson & Phillips, Ltd.	14, Union Court, E.C.
Kramos Ltd.	Bath
Lahmeyer Electrical Co., Ltd.	109-111, New Oxford St., W.C.
Laurence, Scott & Co., Ltd.	Norwich
Le Carbone	17, Water Lane, Great Tower St., E.C.
Morris-Hawkins Electrical Co., Ltd.	17, Charing Cross Rd., W.C.
Musker C. & A., Ltd.	Liverpool
Newtons Ltd.	Taunton
Parsons C. A., & Co.	Newcastle-on-Tyne
Peebles, Bruce, & Co., Ltd.	East Pilton, Edinburgh
Phoenix Dynamo Mfg. Co., Ltd.	Thornbury Works, Bradford
Rhodes Electrical Mfg. Co., Ltd.	City Electrical Works, Bradford
Sandycroft Foundry Co., Ltd.	Near Chester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Selig, Sonnenthal & Co.	85, Queen Victoria St., E.C.
Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., E.C.
Tangye Tool & Electric Co., Ltd.	Oxford Works, Birmingham
Veritys	31 & 32, King St., W.C.

Electric Switches.

Spagnoletti J. E., & Co.	Goldhawk Works, Goldhawk Rd., W.
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Electric Tools.

Lacy-Hulbert & Co., Ltd.	25, Victoria St., S.W.
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Electrical Engineers.

Allen W. H., Son, & Co., Ltd.	Queen's Engineering Wks., Bedford
Belliss & Morcom Ltd.	Birmingham
Beyer, Peacock & Co., Ltd.	Manchester
British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
British Thomson-Houston Co., Ltd.	Rugby
British Westinghouse Electric & Mfg. Co., Ltd.	Norfolk St., Strand, W.C.
Brush Elect. Eng. Co., Ltd.	Falcon Wks., Loughboro'
Clarke, Chapman & Co., Ltd.	Gateshead-upon-Tyne
Crompton & Co., Ltd.	Salisbury House, London Wall, E.C.
Drake & Gorham, Ltd.	66, Victoria St., S.W.
Electrical Co., Ltd.	121 to 125, Charing Cross Rd., W.C.
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hall J. P., & Co.	Oldham

Electrical Engineers.—Continued.

Hartnell Wilson, & Co., Ltd.	Kirkstall Rd., Leeds
Hayward-Tyler & Co., Ltd.	99, Queen Victoria St., E.C.
India Rubber, Gutta Percha, and Telegraph Works Co., Ltd.	Silvertown, Essex
Jackson P. R., & Co., Ltd.	Salford Rolling Mills, Manchester
Johnson & Phillips, Ltd.	14, Union Court, E.C.
Lahmeyer Electrical Co., Ltd.	109-111, New Oxford St., W.C.
Morris-Hawkins Electrical Co., Ltd.	17, Charing Cross Rd., W.C.
Nalder Bros. & Thompson, Ltd.	34, Queen St., E.C.
Parsons C. A., & Co.	Heaton Works, Newcastle
Peebles, Bruce, & Co., Ltd.	East Pilton, Edinburgh
Royce Ltd.	Hulme, Manchester
Sandycroft Foundry Co., Ltd.	Near Chester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Spagnoletti J. E., & Co.	Goldhawk Works, Goldhawk Rd., W.
Tangye Tool & Electric Co., Ltd.	Oxford Works, Birmingham
Weston Electrical Instrument Co.	Audrey House, Ely Place, Holborn, E.C.

Electro Magnets.

Spagnoletti J. E., & Co.	Goldhawk Rd., W.
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Electro Plating Plant.

Canning W., & Co.	Birmingham
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Elevators, Grain, Coal, &c.

Bennis Ed., & Co., Ltd.	Bolton
Coles H. J.	London Crane Wks., Derby
Conveyor & Elevator Co.	Accrington, Lancashire
East Ferry Road Engineering Works Co., Ltd.	Millwall, E.
Gibbons Bros., Ltd.	Dudley, Worcestershire
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Jackman Joseph, & Co., Ltd.	Persberg Steel Works, Attercliffe Common, Sheffield
Pott, Cassels & Williamson	Motherwell, nr. Glasgow
Selig, Sonnenthal & Co.	85, Queen Victoria St., E.C.
Smulders A. F.	Schiedam, Rotterdam, Holland
Watson, Laidlaw & Co.	Glasgow
Whittaker C., & Co., Ltd.	Accrington

Emery and Emery Cloth, &c.

Carborundum Co.	27, Chancery Lane, W.C.
Davies W. J., & Sons	109, Weston St., S.E.
Goldsworthy T., & Sons	Hulme, Manchester
London Emery Works Co.	Park, Tottenham, N.
Oakey John, & Sons, Ltd.	Westminster Bridge Rd., S.E.

Emery Grinding Machinery.

Becker R., & Co.	53, City Rd., E.C.
Beyer, Peacock & Co., Ltd.	Manchester
Canning W., & Co.	Birmingham

Emery Grinding Machinery.—Continued.

Greenwood & Batley, Ltd.	Armley Rd., Leeds
London Emery Works Co.	Park, Tottenham, N.
Luke & Spencer, Ltd.	Broadheath, near Manchester
Selig, Sonnenthal & Co.	35, Queen Victoria St., E.C.
Sterne L. & Co., Ltd.	Crown Iron Wks., Glasgow

Emery Wheels.

Carborundum Co.	27, Chancery Lane, W.C.
Greenwood & Batley, Ltd.	Leeds
London Emery Works Co.	Park, Tottenham, N.
Luke & Spencer, Ltd.	Broadheath, near Manchester
Mitchell's Emery Wheel Co.	Bradford, Manchester
Sterne L. & Co., Ltd.	Crown Iron Wks., Glasgow

Employment Agency.

Richardson C. & Co.	65, Imperial Buildings, Ludgate Circus, E.C.
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Enamelled Iron.

Wildman & Meguyer, Ltd.	Sand Pits Enamel Works, Birmingham
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Engine and Boiler Fittings.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Bailey W. H. & Co., Ltd.	Salford, Manchester
Cambridge Scientific Instrument Co., Ltd.	Cambridge
Consolidated Engineering Co., Ltd.	Slough
Dempster, Moore & Co., Ltd.	49, Robertson St., Glasgow
Drake & Gorham, Ltd.	66, Victoria St., S.W.
Galloways Limited	Manchester
Green & Boulding, Ltd.	28, New Bridge St., E.C.
Hopkinson J. & Co., Ltd.	Huddersfield
M'Neil C.	Kinning Park Ironworks, Glasgow
Piggott Thos. & Co., Ltd.	Springhill, Birmingham
Royles Limited	Irlam, near Manchester
Schäffer & Budenberg, Ltd.	1, Southgate, Manchester
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Smith Bros. & Co.	Hyson Green Works, Nottingham
Storey I. & Sons, Ltd.	Manchester
Tynes Limited	Birmingham
Weir G. & J., Ltd.	Cathcart, Glasgow

Engineers (Consulting and Inspecting).

Hunt Robert W. & Co.	Norfolk House, Cannon St., E.C.
Melville & Macalpine	615, Walnut St., Philadelphia, Pa., U.S.A.

Engines (Air).

Bailey W. H. & Co., Ltd.	Salford, Manchester
Belliss & Morcom Ltd.	Birmingham

Engines (Blowing).

Baker Blower Engineering Co.	Stanley St., Wicker, Sheffield
Belliss & Morcom Ltd.	Birmingham
Clirehugh S. V.	4, Queen Victoria St., E.C.
Galloways Limited	Manchester

Engines (Blowing).—Continued.

Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.	Oberhausen-2, Rhineland
Gwynnes Ltd.	81, Cannon St., E.C.
Scott Geo. & Son (London), Ltd.	44, Christian St., E.
Thwaites Brothers, Ltd.	Bradford (Wigan)
Walker Bros. (Wigan), Ltd.	Pagefield Ironworks,

Engines (Gas).

Andrew J. E. H., Ltd.	Reddish, near Stockport
Ashworth Elijah	Collyhurst, Manchester
Avens Frederick, & Co.	Stroud, Glos.
British Westinghouse Electric and Mfg. Co., Ltd.	Norfolk St., Strand, W.C.
Campbell Gas Engine Co., Ltd.	Halifax, England
Clirehugh S. V.	4, Queen Victoria St., E.C.
Crossley Bros., Ltd.	Manchester (St., E.C.)
Dick, Kerr & Co., Ltd.	Abchurch Yard, Cannon
Dudbridge Ironworks, Ltd.	Dudbridge, near Stroud
Fairbanks, Morse & Co.	126, Southwark St., S.E.
Felding & Platt, Ltd.	Gloucester
Gardner L. & Sons, Ltd.	Patricroft, Manchester
Griffin Engineering Co.	Bath
Körting Brothers	53, Victoria St., S.W.
Kynoch Limited	Wotton, Birmingham
Mather & Platt, Ltd.	Manchester
National Gas Engine Co., Ltd.	Ashton-under-Lyne, Manchester
"Premier" Gas Engine Co. Ltd.	Sandiacre, Nottingham
Robey & Co., Ltd.	Lincoln
Rodger A. & Co.	Govan, Glasgow
Stamm W. (Krupp-Grusonwerk)	25, College Hill, E.C.
Tangyes Limited	Birmingham

Engines (Locomotive).

American Locomotive Co.	111, Broadway, New York City, U.S.A.; and 26, Victoria St., S.W.
Avonside Engine Co.	Bristol
Bagnall W. G., Ltd.	Stafford
Barclay Andrew, Sons and Co., Ltd.	Kilmarnock, N.B.
Beyer, Peacock & Co., Ltd.	Manchester
Borsig A.	Berlin-Tegel
Brush Elect. Eng. Co., Ltd.	Falcon Wks., Loughboro'
Burnham, Williams & Co.	Philadelphia, U.S.A.
Cutbll-King & Co.	26, Nicholas Lane, E.C.
Dick, Kerr & Co., Ltd.	Abchurch Yard, Cannon St., E.C.
Forges, Usines & Fonderies de et a Haine-St-Pierre	Haine-St.-Pierre, Belgium
Fowler J. & Co. (Leeds), Ltd.	Leeds
Green Thomas, & Son, Ltd.	Smithfield Ironworks, Leeds; & New Surrey Wks., Southwark St., S.E.
Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.	Oberhausen-2, Rhineland
Hagans Locomotive Works	Erfurt, Germany
Hannoversche Maschinenbau-Aktien-Gesellschaft vormals Georg Egestorff	Linden vor Hannover, Germany
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Henschel & Sohn	Cassel, Germany

Engines (Locomotive).—Continued.

Hudswell, Clarke & Co., Ltd.	Leeds
Hunslet Engine Co., Ltd.	Leeds
Kerr, Stuart & Co., Ltd.	1, Broad St. Place, E.C.
Locomotive and Machine Co., of Montreal, Ltd.	Imperial Bank Bldgs., Victoria Square, Montreal, Canada; and 26, Victoria St., S.W.
Manning, Wardle & Co., Ltd.	Boyne Eng. Wks., Leeds
North British Locomotive Co., Ltd.	Springburn, Glasgow
Peckett & Sons	Atlas Eng. Wks., Bristol
Peebles Steam Car Co., Ltd.	23, Victoria St., S.W.
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Stephenson Robert & Co., Ltd.	Darlington

Engines (Marine).

Brazil, Holborow & Straker, Ltd.	Vulcan Ironwks., Bristol
Burrell C., & Sons, Ltd.	Thetford
Caledonian Engineering & Shipbuilding Co.	Preston, Lancashire
Campbell & Calderwood	Soho Engine Wks., Paisley
Chaplin Alex., & Co.	Govan, Glasgow
Cochran & Co., Annan, Ltd.	Annan, N.B.
Day, Summers & Co., Ltd.	Southampton
Fawcett, Preston & Co., Ltd.	Liverpool
Fleming & Ferguson, Ltd.	Paisley, N.B.
Hanna, Donald & Wilson	Paisley, N.B.
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hayes Edward	Stony Stratford, Wol.
Hunter & English	Bow, E. (verton)
Kincaid John G., & Co.	Greenock, Scotland
Lobnitz & Co., Ltd.	Renfrew, Scotland
Mumford A. G., Ltd.	Culver St. Ironworks, Colchester
Paul Matthew, & Co., Ltd.	Levenford Works, Dumbarton
Plenty & Son, Ltd.	Eagle Ironworks, Newbury, Berks
Rennie G., & Co.	Thames St., Greenwich
Richardsons, Westgarth, & Co., Ltd.	Hartlepool
Roger R., & Co., Ltd.	Stockton-on-Tees
Ross & Duncan	Whitefield Wks., Glasgow
Schichau F.	Elbing-Danzig, Prussia
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Simons W., & Co., Ltd.	Renfrew, N.B.
Simpson, Strickland & Co., Ltd.	Dartmouth, S. Devon
Smit L., & Zoon	Kinderdijk, Holland
Thornycroft J. L. & Co., Ltd.	Chiswick, W., and Southampton
Vauxhall & West Hydraulic Engineering Co., Ltd.	45, Leadenhall St., E.C.
Vosper & Co., Ltd.	Portsmouth
Wilson Alex.	172, Fenchurch St., E.C.
Yarrow & Co., Ltd.	Poplar, E.

Engines (Oil).

Avens Frederick, & Co.	Stroud, Glos.
Blackstone & Co., Ltd.	Rutland Works, Stamford
Britannia Engineering Co., Ltd.	Colchester
Campbell Gas Engine Co., Ltd.	Halifax, England

Engines (Oil).—Continued.

Crossley Bros., Ltd.	Manchester [E.C.
Diesel Engine Co., Ltd.	179, Queen Victoria St.,
Dudbridge Ironworks, Ltd.	Dudbridge, near Stroud
Fairbanks, Morse & Co.	126, Southwark St., S.E.
Fielding & Platt, Ltd.	Gloucester
Gardner L., & Sons, Ltd.	Patricroft, Manchester
Glover Thomas, & Co., Ltd.	49, Queen Victoria St., E.C.
Griffin Engineering Co.	Bath
Hornsby R., & Sons, Ltd.	Grantham
Kynoch Limited	Witton, Birmingham
Mirrieles Watson Co., Ltd.	Scotland St., Glasgow
Newtons Ltd.	Taunton
Priestman Bros., Ltd.	Holderness F'dry, Hull
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Tangyes Limited	Birmingham
Vosper & Co., Ltd.	Portsmouth

Engines (Portable).

Blackstone & Co., Ltd.	Rutland Works, Stamford
Davey, Paxman & Co., Ltd.	Colchester
Garrett R., & Sons, Ltd.	Leiston Works, Suffolk
Hornsby R., & Sons, Ltd.	Grantham
Marshall, Sons & Co., Ltd.	Gainsborough
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Smedley Brothers, Ltd.	Belper
Turner E. R. & F., Ltd.	(132) Ipswich

Engines (Pumping).

Abbot John, & Co., Ltd.	Gateshead-on-Tyne
Bailey W. H., & Co., Ltd.	Salford, Manchester
Belliss & Morcom Ltd.	Birmingham
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Davey, Paxman & Co., Ltd.	Colchester
Fielding & Platt, Ltd.	Gloucester
Fleming & Ferguson, Ltd.	Paisley, N.B. [E.O.
Fraser & Chalmers, Ltd.	3, London Wall Buildings,
Fullerton, Hodgart and Barclay, Ltd.	Vulcan Foundry and Engine Works, Paisley
Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Glover Thomas, & Co., Ltd.	49, Queen Victoria St., E.C.
Gutehoffnungshütte Coal, Iron, Steel & Engineering Co.	Oberhausen-2, Rhineland
Gwynnes Ltd.	81, Cannon St., E.C.
Hathorn, Davey & Co., Ltd.	Leeds
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Leeds Engineering & Hydraulic Co., Ltd.	Providence Works, Cross Stamford St., Leeds
Manlove, Elliott & Co., Ltd.	Nottingham
McOnie A. & P. W.	Govan, Glasgow
Musgrave Bros.	Crown Point Foundry, Leeds
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Robey & Co., Ltd.	Lincoln
Tangyes Limited	Birmingham
Tannett Walker, & Co., Ltd.	Leeds
Warner R., & Co.	97, Queen Victoria St., E.C.
Worthington Pump Co., Ltd.	153, Queen Victoria St., E.C.

Engines (Stationary).

Abbot John, & Co., Ltd.
 Allen W. H., Son, & Co., Ltd.
 Alley & Maclellan, Ltd.
 Anderson Foundry Co., Ltd.
 Bailey W. H., & Co., Ltd.
 Baker Blower Engineering Co.
 Bechem & Keetman
 Bellias & Morcom Ltd.
 Bertrams Ltd.
 Bever, Dorling & Co., Ltd.
 Brazil, Holborow & Straker, Ltd.
 Brotherhood P.
 Brewett, Lindley & Co. (1899), Ltd.
 Brush Elect. Eng. Co., Ltd.
 Burnsted & Chandler
 Campbell & Calderwood
 Chaplin Alex., & Co.
 Clarke, Chapman & Co., Ltd.
 Cochran J.
 Coles H. J.
 Craig A. F., & Co., Ltd.
 Crow, Harvey & Co.
 Davey, Paxman & Co., Ltd.
 Dempster, Moore & Co., Ltd.
 Donkin B., & Clench, Ltd.
 Douglas & Grant
 Drysdale & Co.
 Easton & Bessemer, Ltd.
 Fairbanks, Morse & Co.
 Fawcett, Preston & Co., Ltd.
 Forges, Usines & Fonderies de et a Haine-St.-Pierre }
 Fowler J., & Co. (Leeds), Ltd.
 Fraser & Chalmers, Ltd.
 Fullerton, Hodgart and Barclay, Ltd.
 Galloways Limited.
 Garrett R., & Sons, Ltd.
 Grantham Boiler & Crank Co., Ltd.
 Greenwood & Batley, Ltd.
 Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.
 Gwynnes Ltd.
 Hannoverische Maschinenbau Aktien-Gesellschaft vormals Georg Egestorff }
 Harvey Engineering Co., Ltd.
 Hathorn, Davey & Co., Ltd.
 Heenan & Froude, Ltd.
 Henschel & Sohn
 Hornsby R., & Sons, Ltd.
 Howden James, & Co.
 Hunter & English
 Isca Foundry & Engineering Co.
 Jessop & Appleby Bros. (Leicester & London), Ltd.
 Lees T. & R.
 Manlove, Alliott & Co.
 Marshall, Sons & Co., Ltd.
 McOnie A. & P. W.
 Gateshead-on-Tyne Queen's Engineering Works, Bedford
 Sentinel Works, Glasgow
 Glasgow
 Salford, Manchester
 Stanley St., Wicker, Sheffield
 Duisburg, Germany
 Birmingham
 St. Katherine's Works, Sciennes, Edinburgh
 Bowling Ironwks., Bradford
 Vulcan Ironwks., Bristol
 Belvedere Rd., S.E.
 Patricroft, Manchester
 Falcon Wks., Loughboro' Hedsford, Staffs.
 Soho Engine Wks., Paisley
 Govan, Glasgow
 Gateshead-on-Tyne Barrhead, N.B.
 London Crane Works, Paisley, N.B.
 Derby
 Park Grove Ironworks, Colchester
 Glasgow
 49, Robertson St., Glasgow
 Chesterfield
 Kirkcaldy, N.B.
 Ben Accord Engine Wks., Taunton
 Glasgow
 126, Southwark St., S.E.
 Liverpool
 Haine - St. - Pierre, Belgium
 Leeds [E.C.
 3, London Wall Buildings, Vulcan Foundry and Engine Works, Paisley
 Manchester
 Leiston Works, Suffolk
 Grantham
 Armley Rd., Leeds
 Oberhausen-2, Rhineland
 81, Cannon St., E.C.
 Linden vor Hannover, Germany
 Scotland St. Engine Works, Glasgow
 Leeds
 Manchester
 Cassel, Germany
 Grantham
 Scotland St., Glasgow
 Bow, E.
 Newport, Mon.
 Leicester & London [ter Hollinwood, nr. Manches-
 Nottingham
 Gainsborough
 Govan, Glasgow

Engines (Stationary).—Continued.

Mirrieles Watson Co., Ltd.
 Napier Brothers, Ltd.
 Parsons C. A., & Co.
 Paul Matthew, & Co., Ltd.
 Peckett & Sons
 Piggott Thos., & Co., Ltd.
 Ransome A., & Co.
 Ransomes, Sims & Jefferies, Ltd.
 Reader E., & Sons
 Reavell & Co., Ltd.
 Renshaw W. R., & Co., Ltd., Trustees of
 Robey & Co., Ltd.
 Roger R., & Co., Ltd.
 Russell Geo., & Co., Ltd.
 Ruston, Proctor & Co., Ltd.
 Scott Ernest, & Mountain, Ltd.
 Shanks Thomas, & Co.
 Simpeon, Strickland & Co., Ltd.
 Smedley Brothers, Ltd.
 Smith A. & W., & Co., Ltd.
 Smith John, & Co.
 Stewart D. & Co. (1902), Ltd.
 Sulzer Bros.
 Tangyes Limited
 Taylor & Challen, Ltd.
 Tullis D. & J., Ltd.
 Turner E. R. & F., Ltd.
 Vauxhall & West Hydraulic Engineering Co., Ltd.
 Vernon & Guest
 Walker Bros. (Wigan), Ltd.
 Willans & Robinson, Ltd.
 Scotland St., Glasgow
 100, Hyde Park St., Glasgow
 Newcastle-on-Tyne
 Leventon Works, Dumbarton
 Bristol
 Springhill, Birmingham
 Newark-on-Trent
 Ipswich
 Phoenix Works, Nottingham
 Ipswich [ham
 Stoke-on-Trent
 Lincoln
 Stockton-on-Tees
 Motherwell, nr. Glasgow
 Sheaf Ironworks, Lincoln
 Close Works, Newcastle-on-Tyne
 Johnstone, N.B.
 Dartmouth, S. Devon
 Eagle Ironworks, Balper
 Glasgow
 Oarshilton, Surrey
 London Rd. Ironworks, Glasgow
 34, Norfolk St., W.C.
 Birmingham
 Birmingham
 Kilbowie Ironworks, near
 (182) Ipswich [Glasgow
 45, Leadenhall St., E.C.
 Soho, Smethwick, near
 Birmingham
 Pagefield Ironworks, Wigan
 Rugby, Warwickshire

Engines (Traction).

Aveling & Porter, Ltd.
 Burrell C., & Sons, Ltd.
 Fowler J., & Co. (Leeds), Ltd.
 Garrett R., & Sons, Ltd.
 Hornsby R., & Sons, Ltd.
 Marshall, Sons & Co., Ltd.
 Ransomes, Sims & Jefferies, Ltd.
 Robey & Co., Ltd.
 Ruston, Proctor & Co., Ltd.
 Rochester
 Thetford
 Leeds
 Leiston Works, Suffolk
 Grantham
 Gainsborough
 Ipswich
 Lincoln
 Sheaf Ironworks, Lincoln

Engines (Winding).

Abbot John, & Co., Ltd.
 Bever, Dorling & Co., Ltd.
 Chaplin Alex., & Co.
 Clarke, Chapman & Co., Ltd.
 Davey, Paxman & Co., Ltd.
 Fawcett, Preston & Co., Ltd.
 Fraser & Chalmers, Ltd.
 Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.
 Jessop & Appleby Bros. (Leicester & London), Ltd.
 Leeds Engineering & Hydraulic Co., Ltd.
 Gateshead-on-Tyne
 Bowling Ironwks., Bradford
 Govan, Glasgow
 Gateshead-on-Tyne
 Colchester
 Liverpool
 3, London Wall Buildings, [E.C.
 Oberhausen-2, Rhineland
 Leicester & London
 Stafford Works, Cross
 Stamford St., Leeds

Engines (Winding).—Continued.

Lidgerwood Mfg. Co.	..	Caxton House, Westminster, S.W.
Ransomes, Sims & Jefferies, Ltd.	..	Ipswich
Robey & Co., Ltd.	..	Lincoln
Sandycroft Foundry Co., Ltd.	..	Near Chester
Tangyes Limited	..	Birmingham
Turner E. R. & F., Ltd.	..	(132) Ipswich

Engravers, Mechanical, &c.

Barns W., & Son	..	Globe Works, Queensland Rd. Holloway, N.
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Evaporators.

Burnet L. & Co.	..	Govan, Glasgow
Osird & Rayner	..	777, Commercial Rd., E
Fullerton, Hodgart and Barclay, Ltd.	..	Vulcan Foundry and Engine Works, Paisley
Harvey Engineering Co., Ltd.	..	Scotland St. Engine Works, Glasgow
Kirkaldy John, Ltd.	..	101, Leadenhall St., E.C.
Liverpool Engineering and Condenser Co., Ltd.	..	Brunswick Dock, Liverpool
Mirrlees Watson Co., Ltd.	..	Scotland St., Glasgow
Normandy's Patent Marine Aërated Fresh Water Co., Ltd.	..	Victoria Dock Rd., E.
Richardsons, Westgarth & Co., Ltd.	..	Hartlepool
Royles Limited	..	Irlam, near Manchester
Weir G. & J., Ltd.	..	Cathcart, Glasgow

Excavators.

Chaplin Alex., & Co.	..	Govan, Glasgow
Coles H. J.	..	London Crane Works, Paisley, N.B. (Derby)
Fleming & Ferguson, Ltd.	..	
Jenop & Appleby Bros. (Leicester & London), Ltd.	..	Leicester & London
Lobnitz & Co., Ltd.	..	Renfrew, Scotland
Lubecker Machine and Manufacturing Co.	..	30, Gt. St. Helen's, E.C.
Rose, Downs & Thompson, Ltd.	..	Old Foundry, Hull
Boston, Proctor & Co., Ltd.	..	Sheaf Ironworks, Lincoln
Schram, Harker & Co.	..	Cannon St. House, E.C.
Smulders A. F.	..	Schiedam, Rotterdam, Holland
Whitaker Bros., Ltd.	..	Horsforth, near Leeds
Wilson John H., & Co., Ltd.	..	Sandhills, Liverpool

Exhausters.

Bryan Donkin Company, Ltd.	..	Chesterfield
Gwynnes Ltd.	..	81, Cannon St., E.C.
Körting Brothers, Ltd.	..	53, Victoria St., S.W.

Expanded Metal.

New Expanded Metal Co., Ltd.	..	York Mansion, York St., Westminster, S.W.
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Explosives.

Kynoch Limited	..	Witton, Birmingham
National Explosives Co., Ltd.	..	11, Austin Friars, E.C.
New Explosives Co., Ltd.	..	62, London Wall, E.C.

Fans and Blowers.

Aldays & Onions Pneumatic Engineering Co., Ltd.	..	Birmingham
Allen W. H., Son, & Co., Ltd.	..	Queen's Engineering Works, Bedford
Baker Blower Engineering Co.	..	Stanley St., Wicker, Sheffield
Bellis & Morcom Ltd.	..	Birmingham
Brotherhood P.	..	Belvedere Rd., S.E.
Bryan Donkin Company, Ltd.	..	Chesterfield
Buffalo Forge Co.	..	39, Victoria St., S.W.
Bumsted & Chandler	..	Hednesford, Staffs.
Capell Fan Co.	..	13, Mosley St., Newcastle-on-Tyne
Churchill Chas., & Co., Ltd.	..	9 to 15, Leonard St., E.C.
Davidson & Co., Ltd.	..	Sirocco Eng. Wks, Belfast
Drysdale & Co.	..	Bon Accord Engine Wks, Glasgow
Forges, Usines & Fonderies de et a Haine-St. Pierre	..	Haine-St. Pierre, Belgium
Günther W., & Sons	..	Central Works, Oldham
Gwynnes Ltd.	..	81, Cannon St., E.C.
Heenan & Froude, Ltd.	..	Manchester
Horsfall Destructor Co., Ltd.	..	Station Sheds, Holbeck, near Leeds.
Howden James, & Co.	..	Scotland St., Glasgow
Jackman J. W., & Co., Ltd.	..	39, Victoria St., S.W.
Keith James, & Blackman Co., Ltd.	..	Farrington Avenue, E.O.
Körting Bros	..	53, Victoria St., S.W.
Matthews & Yates, Ltd.	..	Swinton, Manchester
Meldrum Bros., Ltd.	..	Timperley, nr. Manchester
Musgrave & Co., Ltd.	..	St. Ann's Ironwks., Belfast
Parsons C. A., & Co.	..	Heaton Wks., Newcastle-on-Tyne
Paul Matthew, & Co., Ltd.	..	Levenford Works, Dumbarton
Samuelson & Co., Ltd.	..	Banbury, Oxon
Scott Ernest, & Mountain, Ltd.	..	Close Works, Newcastle-on-Tyne
Sturtevant Engineering Co., Ltd.	..	147, Queen Victoria St., E.C.
Sun Fan Co., Ltd.	..	Longside Lane, Bradford
Thwaites Brothers, Ltd.	..	Bradford
Watson Henry, & Sons	..	High Bridge Works, Newcastle-on-Tyne

Feed Check Valves (Combination).

Green & Boulding, Ltd.	..	23, New Bridge St., E.C.
Hopkinson J., & Co., Ltd.	..	Huddersfield
Weir G. & J., Ltd.	..	Cathcart, Glasgow

Feed-Water Heaters.

Bailey W. H., & Co., Ltd.	..	Salford, Manchester
Baker Blower Engineering Co.	..	Stanley St., Wicker, Sheffield
Boby William	..	Salisbury House, London Wall, E.C.
Burnet L. & Co.	..	Govan, Glasgow
Osird & Rayner	..	777, Commercial Rd., E.
Clarke, Chapman & Co., Ltd.	..	Gateshead-on-Tyne
Fraser & Chalmers, Ltd.	..	3, London Wall Bldgs, E.C.
Holden & Brooke, Ltd.	..	Sirius Wks., West Gorton, Manchester
Kirkaldy John, Ltd.	..	101, Leadenhall St., E.C.
Liverpool Engineering and Condenser Co., Ltd.	..	Brunswick Dock, Liverpool

Feed-Water Heaters.—Continued.

Meldrum Brothers, Ltd. . .	Timperley, nr. M'chester
Normandy's Patent Marine Aërated Fresh Water Co., Ltd. . .	Victoria Dock Rd., E.
Richardsons, Westgarth & Co., Ltd. . .	Hartlepool
Royles Limited . . .	Irlam, near Manchester
Shore T. & Sons . . .	Etruria, Stoke-on-Trent
Taigyes Limited . . .	Birmingham
Weir G. & J., Ltd. . .	Cathcart, Glasgow
Wheeler Condenser and Engineering Co. . .	2 & 3, Norfolk St., Strand, W.C.
Worthington Pump Co., Ltd. . .	153, Queen Victoria St., E.C.
Wright Jos., & Co. . .	Tipton, Staffordshire

Feed-Water Regulators.

Thornycroft J. I., & Co., Ltd. . .	Chiswick, W.
Yarrow & Co., Ltd. . .	Poplar, E.

Fencing.

Bayliss, Jones & Bayliss, Ltd. . .	Wolverhampton
Hill & Smith . . .	Brierley Hill Iron Works, near Dudley, Staffs.

Files.

Allen Edgar, & Co., Ltd. . .	Sheffield
Cannell Laird & Co. Ltd. . .	Sheffield
Firth Thos., & Sons, Ltd. . .	Norfolk Works, Sheffield
Hadfield's Steel Foundry Co., Ltd. . .	Hecia Works, Sheffield
Jessop W., & Sons, Ltd. . .	Sheffield (castle-on-Tyne)
Spencer John, & Sons, Ltd. . .	Newburn Steel Wks., New-Sheaf Works, Sheffield
Turton T., & Sons, Ltd. . .	

Files for Letters, &c.

Shannon Limited . . .	Ropemaker St., E.C.
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Filtering Apparatus.

Caird & Rayner . . .	777, Commercial Rd., E.
Crow, Harvey & Co. . .	Park Grove Ironworks, Glasgow
Greenwood & Batley, Ltd. . .	Armley Rd., Leeds
Kirkaldy John, Ltd. . .	101, Leadenhall St., E.C.
Liverpool Engineering and Condenser Co., Ltd. . .	Brunswick Dock, Liverpool
Manlove, Allott & Co., Ltd. . .	Nottingham
Mirrieles Watson Co., Ltd. . .	Scotland St., Glasgow
Pulsometer Engineering Co., Ltd. . .	Nine Elms Ironworks, Reading
Royles Limited . . .	Irlam, near Manchester
Wells A. C., & Co. . .	102, Midland Rd., N.W.

Fire Bars.

Meldrum Bros., Ltd. . .	Timperley, nr. M'chester
Rose, Downs & Thompson, Ltd. . .	Old Foundry, Hull
Spezialwerk Thost'scher Feuerungs-Anlagen, Ltd. . .	Zwickau, Saxony

Fire-Extinguishing Apparatus.

Merryweather & Sons . . .	63, Long Acre, W.C.
Reddaway F., & Co., Ltd. . .	Pendleton, Manchester
Worthington Pump Co., Ltd. . .	153, Queen Victoria St., E.C.

Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)**Forced Draught Apparatus.**

Bennis Ed., & Co., Ltd. . .	Bolton
Horsfall Destructor Co., Ltd. . .	Station Sheds, Holbeck, near Leeds
Howden James, & Co. . .	Scotland St., Glasgow
Mathewes & Yates, Ltd. . .	Swinton, Manchester
Mechan & Sons, Ltd. . .	Scotstoun Ironworks, Glasgow
Meldrum Bros., Ltd. . .	Timperley, nr. M'chester
Musgrave & Co., Ltd. . .	St. Ann's Ironwks., Belfast
Sturtevant Engineering Co., Ltd. . .	147, Queen Victoria St., E.C.
Watson Henry, & Sons . .	High Bridge Works, Newcastle-on-Tyne

Forges (Portable).

Becker R., & Co. . .	53, City Rd., E.C.
Buffalo Forge Co. . .	39, Victoria St., S.W.
Sturtevant Engineering Co., Ltd. . .	147, Queen Victoria St., E.C.
Thwaites Brothers, Ltd. . .	Vulcan Ironwks., Bradford

Forging Machines and Plant.

Berry Henry, & Co., Ltd. . .	Croydon Works, Leeds
Fielding & Platt, Ltd. . .	Gloucester
Greenwood & Batley, Ltd. . .	Armley Rd., Leeds
Hasenclever C. W., Söhne . .	Düsseldorf, Germany
Hetherington John, & Sons, Ltd. . .	Manchester
Player W. & J. . .	Birmingham
Rice & Co. (Leeds), Ltd. . .	Elland Rd., Leeds
Ryder William, Ltd. . .	141, Folds Rd., Bolton
Taylor & Challen, Ltd. . .	Birmingham

Forging Presses.

Breuer Schumacher & Co., Ltd. . .	21, Lime St., E.C.
Rice & Co. (Leeds), Ltd. . .	Elland Road, Leeds
Stewart D. & Co. (1902), Ltd. . .	London Rd. Ironworks, Glasgow
Tannett Walker & Co., Ltd. . .	Leeds

Forgings (Drop).

Armstrong, Stevens & Son . .	Whittall St., Birmingham
Crosier, Stephens & Co. . .	2, Collingwood St., Newcastle-on-Tyne
Smith Thomas, & Sons of Saltley, Ltd. . .	Saltley Mills, Birmingham
Wynn, Timmins & Co., Ltd. . .	Commercial St., Birmingham

Forgings (Iron and Steel).

Abbot John, & Co., Ltd. . .	Park Works, Gatehead-on-Tyne (field)
Baker Blower Eng. Co. . .	Stanley St., Wicker, Sheffield
Balcke, Tellerling & Cie. Akt. Ges. . .	Benrath, near Düsseldorf
Beardmore Wm., & Co., Ltd. . .	Parkhead Ironworks, Sheffield (Glasgow)
Bessemer Hy., & Co., Ltd. . .	
Brown, Bailey's Steel Works, Ltd. . .	Sheffield
Brown John, & Co., Ltd. . .	Sheffield
Cammell Laird & Co. Ltd. . .	Sheffield
Carbrook Steel Works . .	Sheffield
Colville David, & Sons, Ltd. . .	Motherwell, nr. Glasgow

Forgings (Iron and Steel).—Continued.

Crosier, Stephens & Co. . .	2, Collingwood St., New- castle-on-Tyne
Darlington Forge Co., Ltd.	Darlington
Dennystown Forge Co. . .	Dumbarton
Fairley James, & Sons . .	Shadwell St., Birmingham
Fife Forge Co. . .	Kirkcaldy, Scotland
Firth Thos. & Sons, Ltd. . .	Norfolk Works, Sheffield
Guthhoffnungshütte Coal, Iron, Steel & Engineering Co. . .	Oberhausen-2, Rhineland
Hadfield's Steel Foundry Co., Ltd. . .	Hecla Works, Sheffield
Haniel & Lueg . . .	Düsseldorf, Germany
Hawthorn R. & W., Leslie & Co., Ltd. . .	Newcastle-on-Tyne
Hill & Smith . . .	Brierley Hill Ironworks, near Dudley, Staffs.
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Ica Foundry & Engineer- ing Co. . .	Newport, Mon.
Jackman Joseph, & Co., Ltd.	Persberg Steel Works, Attercliffe Common, Sheffield
Jackson P. R., & Co., Ltd.	Manchester
Jemop Wm., & Sons, Ltd.	Sheffield
Kirkstall Forge Co. . .	Near Leeds
Leeds Forge Co., Ltd. . .	Leeds
Midland Railway Carriage & Wagon Co., Ltd. . .	Abbey Wks., Shrewsbury
Rogerson John, & Co., Ltd.	Wolsingham, E.S.O., Co. Durham
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Stableford & Co., Ltd. . .	Coalville
Steel Co. of Scotland, Ltd.	23, Royal Exchange Square, Glasgow
Vickers, Sons, & Maxim, Ltd.	Sheffield

**Furnaces for Destroying Refuse.—(See Dis-
infectors and Destructors.)****Furnaces and Furnace Fittings.**

Alldays & Onions Pneumatic Engineering Co., Ltd. . .	Birmingham
Bennis Ed., & Co., Ltd. . .	Bolton
Brown John, & Co., Ltd. . .	Sheffield
Murphy Chas., & Co., Ltd. . .	9 to 15, Leonard St., E.C.
Custodia Alphonso, Co. . .	119, Victoria St., S.W.
Deighton's Patent Flue & } Tube Co., Ltd. . .	Vulcan Works, Pepper Rd., Leeds
Galloways Limited . . .	Manchester
Gibbons Bros., Ltd. . .	Dudley, Worcestershire
Horsfall Destructor Co., } Ltd. . .	Station Sheds, Holbeck, near Leeds
Howden James, & Co. . .	Scotland St., Glasgow
Leeds Forge Co., Ltd. . .	Leeds
Masons Gas Power Co., Ltd.	Alma Wks., Levenshulme
Meldrum Bros., Ltd. . .	Timperley, nr. M'chester
Underfeed Stoker Co., Ltd.	Coventry House, South Place, E.C.
Webb, Peet & Co. . .	Westgate Ironwks., Glou- cester

Fusible Plugs.

National Boiler and General Insurance Co., Ltd. . .	22, St. Ann's Square, Manchester
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Galvanized Ironwork.

Ash Joseph, & Son . . .	Rea Works, Rea St. South, Birmingham
Baldwins Ltd., . . .	5, Fenchurch St., E.O.

Galvanizers.

Dennis W. F., & Co. . .	49, Queen Victoria St., E.C.
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Galvanizing (Plant for).

Forrest & Co., Ltd. . .	Wyvenhoe, Essex; & 22, Billiter St., E.C.
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Gas Bottles (Valves for).

Scotch & Irish Oxygen Co., Ltd. . .	Rosehill Works, Glasgow
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Gas Engines.—(See Engines, Gas.)**Gas Exhausters.**

Allen W. H., Son, & Co., Ltd. . .	Queen's Engineering Works, Bedford
Baker Blower Engineering Co. . .	Stanley St., Wicker, Shef- field
Bryan Donkin Company, Ltd.	Chesterfield
Gwynnes Ltd. . .	81, Cannon St., E.C.
Körting Brothers, Ltd. . .	53, Victoria St., S.W.
Meldrum Bros., Ltd. . .	Timperley, nr. M'chester
Owens S., & Co. . .	Whitefriars St., E.C.
Samuelson & Co., Ltd. . .	Ranbury, Oxon
Sturtevant Engineering Co., Ltd. . .	147, Queen Victoria St., E.C.

Gas Producers.

Avens Frederick, & Co. . .	Stroud, Glos.
Campbell Gas Engine Co., Ltd. . .	Halifax, England
Daniels, T. H. & J., Ltd. . .	Stroud, Glos.
Dowson Economic Gas & } Power Co., Ltd. . .	39, Victoria St., West- minster, S.W.
Gasmotoren-Fabrik Deutz	Cologne-Deutz 34, Ger- many
Masons Gas Power Co., Ltd.	Alma Wks., Levenshulme
Pierson J. & O. G. . .	47, Rue Lafayette, Paris
Power Gas Corporation, Ltd.	39, Victoria St., S.W.
Rodger A., & Co. . .	Govan, Glasgow
Sun Gas Co., Ltd. . .	15, Tothill St., Broadway, Westminster, S.W.
Tangyies Limited . . .	Birmingham
Williams J. Arthur . . .	92, Hatton Garden, E.C.

Gas Works (Plant for).

Ashmore, Benson, Pease & Co., Ltd. . .	Stockton-on-Tees
Fielding & Platt, Ltd. . .	Gloucester
Hanna, Donald & Wilson . .	Paisley, N.B.
Patent Shaft & Axletree Co., Ltd. . .	Wednesbury
Piggott Thos. & Co., Ltd.	Springhill, Birmingham
Wood R. D., & Co. . .	Philadelphia, U.S.A.

Gauge Glasses.

Branscomb E., & Son . .	Aston, Birmingham
Butt & Worth Bros., Ltd. . .	Newton Heath Glass Works, Manchester
Gulbert-Martin . . .	9, Edmund Place, Alders- gate, E.C.
Klinger Richard, & Co. . .	66, Fenchurch St., E.C.
Mourcief John, Ltd. . .	Perth, Scotland

Gauge Glasses.—Continued.

Schäffer & Budenberg, Ltd. Whitworth St., London Rd., Manchester
 Tomey Joseph, & Sons, Ltd. Aston, Birmingham
 Treasure J. B., & Co. .. S. Vauxhall Rd., Liverpool

Gauges (Pressure).

Bailey W. H., & Co., Ltd. Salford, Manchester
 Hannan & Buchanan .. 75, Robertson St., Glasgow
 Hopkinson J., & Co., Ltd. Huddersfield [Gow
 Hulburd Engineering Co. 150, Leadenhall St., E.C.
 Negretti & Zambra .. 38, Holborn Viaduct, E.C.
 Schäffer & Budenberg, Ltd. Whitworth St., London Rd., Manchester
 Smith Bros. & Co. .. Hyson Green Works, Nottingham [Chester
 Storey I., & Sons, Ltd. .. Empress Foundry, Manchester
 Treasure J. B., & Co. .. 8, Vauxhall Rd., Liverpool

Gear Cutters.

Brown D., & Sons, Ltd. .. Huddersfield
 Hirst F. .. Folly Hall, Huddersfield
 Wallwork Henry, & Co., Ltd. Manchester

Gearing.—(See Wheels, Geared.)**Girders.**

Arrol Sir William, & Co., Ltd. .. Dalmarnock Ironworks, Bridgeton, Glasgow
 Arrol's Bridge & Roof Co., Ltd. .. Germiston Wks., Glasgow
 Clyde Structural Iron Co., Ltd. .. Clyde-side Ironworks, Scotstoun, Glasgow
 Compagnie Centrale de Construction, Ltd. .. Broad St., E.C.
 Craig A. F., & Co., Ltd. .. Paisley, N.B.
 De Bergus & Co., Ltd. .. Manchester
 Heenan & Froude, Ltd. .. Newton Heath Ironworks, near Manchester
 Hill & Smith .. Brierley Hill Iron Works, near Dudley, Staffs.
 Isaac Foundry & Eng. Co. .. Newport, Mon.
 Lysaght John, Ltd. .. Bristol
 Measures Bros., Ltd. .. Southwark St., S.E.
 Mechan & Sons, Ltd. .. Scotstoun Iron Works, Glasgow
 Piggott Thos., & Co., Ltd. Springhill, Birmingham
 Scott Walter, Ltd. .. Leeds Steel Works, Leeds
 Smith A. & W., & Co., Ltd. Eglington Engine Works, [Glasgow
 Tees Side Bridge & Engineering Works, Ltd. .. Middlesbrough

Glazing.

Grover & Co., Ltd. .. Wharf Rd., N.

Gold-Crushing and Amalgamating Machinery.

Askham Bros. & Wilson, Ltd. Sheffield
 Davey, Paxman & Co., Ltd. Colchester
 Fraser & Chalmers, Ltd. .. 3, London Wall Buildings, [E.C.
 Jessop & Appleby Bros. (Leicester & London), Ltd. Leicester & London
 Krupp Aktiengesellschaft Magdeburg-Buckau, Germany
 Marsden H. R. .. Soho Foundry, Leeds
 Robey & Co., Ltd. .. Lincoln
 Sandycroft Foundry Co., Ltd. Near Chester
 Starom W. (Krupp Aktiengesellschaft Grusonwerk) 25, College Hill, E.C.

Gold Dredgers.

Jessop & Appleby Bros. (Leicester & London), Ltd. Leicester & London
 Lobnitz & Co., Ltd. .. Renfrew, Scotland
 Simons W., & Co., Ltd. .. Renfrew, Scotland

Governors (Engine).

Hartnell Wilson, & Co., Ltd. Volt Works, Kirkstall Rd., Leeds
 Hartung, Kuhn & Co. .. Dusseldorf
 Hollingdrake Hy., & Son (No. 4) .. Stockport
 Mason Regulator Co. .. Boston, Mass., U.S.A.
 Napier Brothers, Ltd. .. 100, Hyde Park St., [Glasgow
 Pollock, Macnab & Highgate .. Shettleston, Glasgow
 Schäffer & Budenberg, Ltd. Whitworth St., London Rd., Manchester
 Steven & Struthers .. Glasgow
 Storey I., & Sons, Ltd. .. Empress Foundry, Manchester
 Tangyes Limited .. Birmingham [Chester
 Turner E. R. & F., Ltd. .. (182) Ipswich

Grain Cleaning Machinery.

Boby Robert, Ltd. .. Bury St. Edmunds
 Stacey Frank, & Co. .. Winchester House, Birmingham

Graphite (Lubricating, &c.).

Dixon Jos., Crucible Co. .. 28, Victoria St., S.W.
 Gerhardt Erich .. Dresden A., Germany
 Stern-Sonneborn Oil Co. .. 57, Gracechurch St., E.C.

Grinding Machinery.

Askham Bros. & Wilson, Ltd. Sheffield
 Becker R., & Co. .. 53, City Rd., E.C.
 Hadfield's Steel Foundry Co., Ltd. .. Hecla Works, Sheffield
 Hardy Patent Pick Co., Ltd. Sheffield
 Jessop W., & Sons, Ltd. .. Sheffield
 Mason Bros. .. Brandon St., Leicester
 Selig, Sonnenthal & Co. .. 85, Queen Victoria St., [E.C.
 Stamm W. (Krupp Aktiengesellschaft Grusonwerk) 25, College Hill, E.C.

Gun-Making Machinery.

Greenwood & Batley, Ltd. Armley Rd., Leeds

Gunpowder and Gun-Cotton Machinery.

Baker Blower Engineering } Stanley St., Wicker, Sheffield
 Co. .. field
 Greenwood & Batley, Ltd. Armley Rd., Leeds
 Hall J. & E., Ltd. .. Dartford Ironworks, Kent
 Stamm W. (Krupp Aktiengesellschaft Grusonwerk) 25, College Hill, E.C.
 Taylor & Challen, Ltd. .. Birmingham

Guns and Gun Forgings.

Brown John, & Co., Ltd. .. Sheffield
 Jessop W., & Sons, Ltd. .. Brightside Wks., Sheffield
 Stamm W. (Krupp Aktiengesellschaft Grusonwerk) 25, College Hill, E.C.
 Vickers, Sons & Maxim, Ltd. Sheffield

Hammers (Power).

Consolidated Pneumatic } Palace Ch'hrs, 9, Bridge
 Tool Co., Ltd. .. St., Westminster, S.W.
 Dudgeon F. S. .. 30, Great St. Helen's, E.C.

Hammers (Power).—Continued.

Globe Pneumatic Engineer- ing Co., Ltd.	150, Queen Victoria St., E.C.
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Ingersoll-Rand Co.	114, Queen Victoria St., E.C.
Jackman J. W., & Co., Ltd.	39, Victoria St., S.W.
Masey B. & S.	Openshaw, Manchester
Nasmyth, Wilson & Co., Ltd.	Bridgewater F'dry, Patri- croft, near Manchester
Player W. & J.	Birmingham
Ryder Thos., & Son	Turner Bridge Iron Works, Bolton
Thwaites Brothers, Ltd.	Bradford

Hammers (Steam).—(See Steam Hammers.)**Heating Apparatus.**

Buffalo Forge Co.	39, Victoria St., S.W.
Crompton & Co., Ltd.	Salisbury House, London Wall, E.C.
Korting Brothers, Ltd.	53, Victoria St., S.W.
Matthews & Yates, Ltd.	Swinton, Manchester
Mungrave & Co., Ltd.	St. Ann's Irawka, Belfast
Boyles Limited	Irlam, near Manchester
Sturtevant Engineering	147, Queen Victoria St., E.C.
Co., Ltd.	
Tallis D. & J., Ltd.	Kilbowie Ironworks, near Glasgow

Hoisting Machinery.—(See also Cranes.)

Bailey W. H., & Co., Ltd.	Salford, Manchester
Bechem & Keetman	Duisburg, Germany
Bennath Engineering Co.	36, Victoria St., S.W.
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Bleichert Adolf, & Co.	Leipzig-Gohlis 54
Brown Hoisting Machinery Co.	Cleveland, Ohio, U.S.A.
Burton C. W., Griffiths & Co.	1, 2 & 3, Ludgate Square Ludgate Hill, E.O.
Chaplin Alex., & Co.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Coles H. J.	London Crane Works, Derby
Consolidated Pneumatic Tool Co., Ltd.	Palace Ch'b'rs, 9, Bridge St., Westminster, S.W.
Craig A. F., & Co., Ltd.	Paisley, N.B.
Craven Brothers, Ltd.	Osborne St., Manchester
Drysdale & Co.	Bon Accord Engine Wks., Colchester (Glasgow)
Davey, Paxman & Co., Ltd.	Gloucester
Frazer & Platt, Ltd.	3, London Wall Buildings, E.C.
Fraser & Chalmers, Ltd.	Berkley St., Birmingham
Gibbins R. C., & Co.	Parkhead, Glasgow
Glasgow Electric Crane and Hoist Co., Ltd.	24A, High St., Lough- borough, Leicest'r/shire
Godfrey J. T.	
Higginbottom & Mannock, Ltd.	West Gorton, Manchester
Hunter & English	Bow, E.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Lacy-Halbert & Co.	25, Victoria St., S.W.
Lidgerwood Mfg. Co.	Caxton House, West- minster, S.W.
Mork Patent Pulley Block Co.	42-44, Moor Lane, E.C.
Pohlig J., Ltd.	Cologne

**Hoisting Machinery.—(See also Cranes.)—Con-
tinued.**

Ransomes, Sims & Jefferies, Ltd.	Ipswich
Rice & Co. (Leeds), Ltd.	Elland Road, Leeds
Robey & Co., Ltd.	Lincoln
Royce Ltd.	Hulme, Manchester
Selig, Sonnenthal & Co.	85, Queen Victoria St., E.C.
Smith A., & Stevens	Queen's Road, Battersea
Stamm W. (Krupp Aktien- gesellschaft Grusonwerk)	25, College Hill, E.C.
Tangyes Limited	Cornwall Wks., Birgham
Veithardt & Hall, Ltd.	41, Eastcheap, E.C.
Warden A., & Co.	60, Great Eastern St., E.C.
Wilson John H., & Co., Ltd.	Sandhills, Liverpool
Youngs	Ryland St. Works, Bir- mingham

Hoops.

Motherwell Iron & Steel Co., Ltd.	Motherwell, Scotland
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Hose Pipes.

Asbestos Co., Ltd. (Bell's)	59½, Southwark St., S.E.
Dunlop Rubber Co., Ltd.	Aston, Birmingham
Merryweather & Sons	63, Long Acre, W.C.
Reddaway F. & Co., Ltd.	Pendleton, Manchester
Tallis John, & Son	St. Ann's Leather Wks., Glasgow
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.
Woodite Works	Mitcham Common, Surrey
Worthington Pump Co., Ltd.	158, Queen Victoria St., E.C.

Hydrants.

Alley & Maclellan, Ltd.	Sentinel Works, Glasgow
Glensfield & Kennedy, Ltd.	Kilmarnock, N.B.

Hydraulic Machinery.

Abbot John, & Co., Ltd.	Park Works, Gateshead.
Anderson Foundry Co., Ltd.	Glasgow [on-Tyne
Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Bailey W. H., & Co., Ltd.	Salford, Manchester
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Breuer Schumacher & Co., Ltd.	21, Lime St., E.C.
Campbell & Calderwood	Soho Engine Wks., Paisley
Coles H. J.	London Crane Works, Carlisle [Derby
Cowans, Sheldon & Co., Ltd.	Paisley, N.B.
Craig A. F., & Co., Ltd.	Osborne St., Manchester
Craven Brothers, Ltd.	Park Grove Ironworks, Glasgow
Crow, Harvey & Co.	Bon Accord Eng. Wks., [Glasgow
Drysdale & Co.	Millwall, E.
East Ferry Road Engineer- ing Works Co., Ltd.	
Flelding & Platt, Ltd. (Tweddell's System)	Gloucester
Fullerton, Hodgart and Barclay, Ltd.	Vulcan Foundry and Engine Works, Paisley
Glensfield & Kennedy, Ltd.	Kilmarnock, N.B.
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Haniel & Lueg	Düsseldorf, Germany
Hathorn, Davey & Co., Ltd.	Leeds
Hayward-Tyler & Co., Ltd.	99, Queen Victoria St., E.C.
Leeds Engineering and Hydraulic Co., Ltd.	Providence Wks., Cross Stamford St., Leeds
Marshall, Fleming & Jack	Motherwell, N.B.

Hydraulic Machinery.—*Continued.*

McOnie A. & P. W.	..	Govan, Glasgow
Middleton, Robert	..	Sheepscar Foundry, Leeds
Musgrave Bros.	..	Crown Point Foundry, Liverpool
Musker C. & A., Ltd.	..	Leeds
Nasmyth, Wilson & Co., Ltd.	..	Bridgewater F'dry. Patri-croft, near Manchester
Owens S. & Co.	..	Whitefriars St., E.C.
Pulcometer Engineering Co., Ltd.	..	Nine Elms Ironworks, Reading
Rice & Co. (Leeds), Ltd.	..	Elland Rd., Leeds
Rose, Downs & Thompson, Ltd.	..	Old Foundry, Hull
Smith A. & Stevens	..	Queen's Rd., Battersea
Smith Brothers & Co.	..	Kingston Engine Works, Glasgow
Tangyes Limited	..	Birmingham
Warner R. & Co.	..	97, Queen Victoria St., E.C.
Wood R. D. & Co.	..	Philadelphia, U.S.A.

Hydraulic Presses.

Arrol Sir William & Co., Ltd.	..	Dalmarnock Ironworks, Ltd.
Bailey W. H. & Co., Ltd.	..	Bridgeton, Glasgow
Bechem & Keetman	..	Salford, Manchester
Berry Henry, & Co., Ltd.	..	Duisburg, Germany
Bessemer Hy., & Co., Ltd.	..	Croydon Works, Leeds
Breuer Schumacher & Co., Ltd.	..	Sheffield
Coates H. J.	..	21, Lime St., E.C.
Drysdale & Co.	..	London Crane Works, Derby
Fawcett, Preston & Co., Ltd.	..	Bon Accord Engineering Works, Glasgow
Fielding & Platt, Ltd.	..	Liverpool
German Niles Tool Works	..	Gloucester [Berlin
Greenwood & Batley, Ltd.	..	über-Schönweide, near
Hadfield's Steel Foundry Co., Ltd.	..	Armley Rd., Leeds
Hayward-Tyler & Co., Ltd.	..	Hecla Works, Sheffield
Jessop & Appleby Bros. (Leicester & London), Ltd.	..	99, Queen Victoria St., E.C.
Krupp Aktiengesellschaft	..	Leicester & London
Grusonwerk	..	Magdeburg-Buckau
Leeds Engineering & Hydraulic Co., Ltd.	..	Providence Works, Cross
Manlove, Alliott & Co., Ltd.	..	Stamford St., Leeds
McOnie A. & P. W.	..	Nottingham
Middleton Robert	..	Govan, Glasgow
Musgrave Bros.	..	Sheepscar Foundry, Leeds
Musker C. & A., Ltd.	..	Crown Point Foundry, Liverpool
Piggott Thos. & Co. Ltd.	..	Leeds
Rice & Co. (Leeds), Ltd.	..	Springhill, Birmingham
Rose, Downs & Thompson, Ltd.	..	Elland Rd., Leeds
Stewart D. & Co. (1902), Ltd.	..	Old Foundry, Hull
Stothert & Pitt, Ltd.	..	London Rd. Ironworks, Glasgow
Tangyes Limited	..	Bath
Tannett Walker, & Co., Ltd.	..	Cornwall Wks., Birm'ham
Taylor & Challen, Ltd.	..	Leeds
Waygood & Co., Ltd.	..	Birmingham
	..	Falmouth Rd., S.E.

Hydraulic Rams.

Bailey W. H. & Co., Ltd.	..	Salford, Manchester
Blake John, Ltd.	..	Accrington, Lancs.
Owens S. & Co.	..	Whitefriars St., E.C.
Warner R. & Co.	..	97, Queen Victoria St., E.C.

Hydro-Extractors.

Broadbent Thos. & Sons, Ltd.	..	Chapel Hill, Huddersfield
Manlove, Alliott & Co., Ltd.	..	Nottingham
Pott, Cassels & Williamson	..	Motherwell, nr. Glasgow
Tullis D. & J., Ltd.	..	Kilbowie Ironwork near Glasgow
Watson, Laidlaw & Co.	..	Glasgow

Hydrokineters and Temperature Equalisers.

Weir G. & J., Ltd.	..	Holm Foundry, Cathcart, Glasgow
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Ice-Making Machines.

Allen W. H., Son, & Co., Ltd.	..	Queen's Engineering Works, Bedford
Hall J. & E., Ltd.	..	Dartford Ironworks, Kent
Mirrlees Watson & Co., Ltd.	..	Scotland St., Glasgow
Pontifex & Wood, Ltd.	..	Union Foundry, Derby
ruisometer Engineering Co., Ltd.	..	Nine Elms Ironworks, Reading
Sterne L. & Co., Ltd.	..	Crown Ironworks, Glas-

Igniters (Electric).

Lodge Bros. & Co.	..	14, New St., Birmingham
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Incandescence Lamps.

British Thomson-Houston Co., Ltd.	..	Rugby
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India-Rubber Goods.

Asbestos Co., Ltd. (Bell's)	..	594, Southwark St., S.E.
Asbestos Co., Ltd. (The United)	..	Dock House, Billiter St., E.C.
Dunlop Rubber Co., Ltd.	..	Aston, Birmingham
India-rubber, Gutta Percha & Telegraph Wks. Co., Ltd.	..	Silvertown, Essex
Reddaway F., & Co., Ltd.	..	Pendleton, Manchester
Winter, F.	..	8, Redcross St., E.C.
Woodite Works	..	Mitcham Common, Surrey

India-Rubber Machinery.

Johnson & Phillips, Ltd.	..	Victoria Works, Old Charlton, Kent
Bailey W. H. & Co., Ltd.	..	Albion Works, Salford, Manchester

Indicators (Steam Engine).

Orosby Steam Gage & Valve Co.	..	147, Queen Victoria St., E.C.
Hannan & Buchanan	..	75, Robertson St., Glas-
Lunken Valve Co.	..	35, Great Dover St., S.E.
Schaeffer & Budenberg, Ltd.	..	Whitworth St., London Rd., Manchester
Star Brass Mfg. Co.	..	23, New Bridge St., E.C.

Injectors.

Armstrong James, & Co., Ltd.	..	116, Queen Victoria St., E.C.
Bailey W. H. & Co., Ltd.	..	Albion Works, Salford,
Consolidated Engineering Co., Ltd.	..	Slough
Davies & Metcalfe, Ltd.	..	Romiley, Manchester
Dempster, Moore & Co., Ltd.	..	49, Robertson St., Glasg'w

Injectors.—Continued.

Green & Boulding, Ltd.	28, New Bridge St., E.O.
Gresham & Craven, Ltd.	Manchester
Holden & Brooke, Ltd.	West Gorton, Manchester
Jenkins Bros.	71, John St., New York, U.S.A.
Klinger Richard, & Co.	66, Fenchurch St., E.O.
Körting Brothers, Ltd.	53, Victoria St., Westminster
Manlove, Allott & Co., Ltd.	Nottingham
Schäffer & Budenberg, Ltd.	Whitworth St., London Rd., Manchester
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.

Inks.

Higgins C. M., & Co.	11, Farringdon Avenue, E.C.
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Instruments (Surveying).

Halden J., & Co.	8, Albert Sq., Manchester
Negretti & Zambra	33, Holborn Viaduct, E.O.
Salmoiraghi A., & C.	Milano, Italy
Stanley W. F., & Co., Ltd.	286, High Holborn, W.C.

Insulating Materials.

Cape Asbestos Co., Ltd.	8, Minorities, E.C.
Wiggins F., & Sons	102 & 103, Minorities, E.
Woodite Works	Mitcham Common, Surrey

Insurance Companies.

National Boiler & General	22, St. Ann's Square,
Insurance Co., Ltd.	Manchester
Sun Fire Office	63, Threadneedle St., E.O.
Vulcan Boiler & General	
Insurance Co., Ltd.	67, King St., Manchester

Iron Buildings.

Ash Joseph, & Son	Rea Works, Rea St. South, Birmingham
Ashmore, Benson, Pease & Co., Ltd.	Stockton-on Tees
Baldwins Ltd.	5, Fenchurch St., E.C.
Gutehoffnungshütte Coal, Iron, Steel & Engineering Co.	Oberhausen-2, Rhineland
Head, Wrightson & Co., Ltd.	Teesdale Ironworks, Thornaby-on Tees
Heenan & Froude, Ltd.	Newton Heath Ironworks, near Manchester
Hill & Smith	Brierley Hill Iron Works, near Dudley, Staffs.
Keep F. A., Juxon & Co.	Empire Works, Barn St., Birmingham
Lysaght John, Ltd.	Bristol
Motherwell Bridge Co., Ltd.	Motherwell, N.B.

Iron Founders.—(See Castings, Iron.)**Iron Merchants.**

Birch John, & Co., Ltd.	3, London Wall Buildings, [E.C.]
Gutehoffnungshütte Coal, Iron, Steel & Eng. Co.	Oberhausen-2, Rhineland
Henderson & Glass	Liverpool
Motherwell Iron & Steel Co., Ltd.	Motherwell, Scotland

Iron (Pig).

Brown John, & Co., Ltd.	Sheffield
Glasgow Iron & Steel Co., Ltd.	Wishaw Iron & Steel Works, Wishaw
Sheepbridge Coal & Iron Co., Ltd.	Chesterfield

Iron and Steel Works (Plant for).

Bechem & Keetman	Duisburg, Germany
Breuer Schumacher & Co., Ltd.	21, Lime St., E.C.
Carbrook Steel Works	Sheffield
Clirehugh S. V.	4, Queen Victoria St., E.O.
Craig & Donald, Ltd.	Johnstone, near Glasgow
Crow, Harvey & Co.	Park Grove Ironworks, Glasgow
Filding & Platt, Ltd.	Gloucester [Glasgow]
Galloways Limited	Manchester
Harvey Engineering Co., Ltd.	Scotland St. Engine Works, Glasgow
Head, Wrightson & Co., Ltd.	Teesdale Ironworks, Thornaby-on Tees
Muggrave Bros.	Crown Pat. Fndry., Leeds
Oeking & Co.	Düsseldorf, Germany
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Tannett Walker & Co., Ltd.	Leeds
Tees Side Bridge & En- gineering Works, Ltd.	Middlesbrough
Thwaites Bros., Ltd.	Bradford

Jacks (Lifting).

Dempster, Moore & Co.	49, Robertson St., Glas- gow
Gibbins R. C., & Co.	Berkley St., Birmingham
Sell, Sonnenenthal & Co.	85, Queen Victoria St., Birmingham [E.C.]
Tangyes Limited	41, Eastcheap, E.C.
Veithardt & Hall, Ltd.	Ryland St. Works, Bir- mingham
Youngs	

Jointing Materials.

Asbestos Co., Ltd. (Bell's)	594, Southwark St., S.E.
Asbestos Co., Ltd. (The United)	Dock House, Billiter St., E.C.
Dunlop Rubber Co., Ltd.	Aston, Birmingham
Hobdell, Way & Co., Ltd.	63, Crutched Friars, E.C.
Hudson J., & Co.'s Suc- cessors	4, Victoria Warehouses, Mansell St., E.
Hulburd Engineering Co.	150, Leadenhall St., E.O.
Jenkins Bros.	71, John St., New York, U.S.A.
Klinger Richard, & Co.	66, Fenchurch St., E.O.
London Engineering Co., Ltd.	6, St. Helen's Place, E.C.
Moor & Co.	165, Princess St., Man- chester
Smooth-on Mfg. Co.	Jersey City, N.J., U.S.A.

Joists, Relled (Iron and Steel).

Measures Bros., Ltd.	Southwark St., S.E.
Shelton Iron, Steel & Coal Co., Ltd.	Stoke-on-Trent, & 122, Cannon St., E.C.

Ladies.

Benrath Engineering Co.	38, Victoria St., S.W.
M'Neil C.	Kinning Park Ironworks, Glasgow

Lamps.—(See also *Electric Lighting Plant*.)

Wells A. C., & Co. 102, Midland Rd., St. Pancras, N.W.

Lathes.—(See *Machine Tools*)**Launches and Yachts.**

Alley & Maclellan, Ltd. Sentinel Works, Glasgow
Burnet L., & Co. Govan, Glasgow
Chaplin Alex., & Co. Cranstonhill Engine Wks., Glasgow

Cochran & Co., Annan, Ltd. Annan, N.B.
Jay, Summers & Co., Ltd. Southampton
Dee Shipbuilding Co., Ltd. Queen's Ferry, nr. Chester
Pleming & Ferguson, Ltd. Paisley, N.B.
Forrester & Co., Ltd. Wyvenhoe, Essex; & 22, Billiter St., E.C.

Hianna, Donald & Wilson Paisley, N.B. [ton
Hayes Edward Stony Stratford, Wolverhampton
McKie & Baxter Govan, Glasgow
Boes & Duncan Whitefield Wks., Glasgow
Salter Bros. Oxford
Schichau F. Elbing-Danzig, Prussia
Simons W., & Co., Ltd. Renfrew, N.B.

Simpson, Strickland & Co., Ltd. Dartmouth, S. Devon
Thornycroft J. I., & Co., Ltd. Chislewick, W., and Southampton

Vosper & Co., Ltd. Portsmouth
Wilson Alex. 3, Lombard Court, E.C.
Yarrow & Co., Ltd. Poplar, E.

Laundry Machinery.

Armstrong James, & Co., Ltd. 116, Queen Victoria St., E.C.
Bradford Thomas, & Co. Crescent Ironworks, Manchester
Manlove, Alliott & Co., Ltd. Nottingham [chester
Summerscales W., & Sons, Ltd. Phoenix Fndry, Keighley
Tullis D. & J., Ltd. Kilbowie Ironworks, nr. Glasgow

Leather Machinery.

Drysdale & Co. Bon Accord Engine Wks., Glasgow
Stothert & Pitt, Ltd. Bath

Lifts.

Abbot John, & Co., Ltd. Gateshead-on-Tyne
Bailey W. H., & Co., Ltd. Salford, Manchester
Berry Henry, & Co., Ltd. Croydon Works, Leeds
Coles, H. J. London Cranes Works, Derby
Drysdale & Co. Bon Accord Engine Wks., Glasgow
Fielding & Platt, Ltd. Gloucester
Gibbins R. O., & Co. Berkeley St., Birmingham
Hill J. & E., Ltd. Dartford Ironworks, Kent
Hunter & English Bow, E.
Jessop & Appleby Bros. (Leicester & London), Ltd. Leicester & London
Rice & Co. (Leeds), Ltd. Eiland Rd., Leeds
Smith Archd., & Stevens Queen's Rd., Battersea
Spagnoletti J. E., & Co. Goldhawk Rd., W.
Tangyes Limited Birmingham
Waygood & Co., Ltd. Falmouth Rd., S.E.

Light Railways.—(See *Railways, Light and Portable*.)**Lighting Apparatus.**—(See also *Electric Lighting Plant*.)

Wells A. C., & Co. 102, Midland Rd., St. Pancras, N.W.

Lightning Conductors.

Bailey W. H., & Co., Ltd. Salford, Manchester
Blackburn, Starling & Co., Ltd. Gresham Works, Nottingham

Lithographers.

Cook Robt. J., & Hammond 2 & 6, Tothill St., S.W.
Kell Thos., & Son 40, King St., W.C.

Lock Nuts and Nut-Locking Appliances.

Baylis, Jones & Baylis, Ltd. Wolverhampton
Greener J. & H. Eldon St. House, E.C.
Grover & Co., Ltd. Wharf Rd., N.

Locomotive Engines.—(See *Engines, Locomotive*.)**Locomotives (Mountings for).**

Bailey W. H., & Co., Ltd. Salford, Manchester
Hopkinson J., & Co., Ltd. Huddersfield
Storoy I., & Sons, Ltd. Manchester

Looms.

Orsig A. F., & Co., Ltd. Paisley, N.B.

Lubricants and Oils.

Asbestos Co., Ltd. (Bell's) 59, Southwark St., S.E.
Asbestos Co., Ltd. (The) Dock House, Billiter St., United E.C.
Barns W., & Son Globe Works, Queensland Rd., Holloway, N.
Bremner John A., & Co. Albert St., Manchester
Dixon Joe., Crucible Co. 28, Victoria St., S.W.
Duncan, Watson & Co. Dashwood House, New Broad St., E.C.

Price's Patent Candle Co. Ltd.

Battersea, S.W.
Snowdon, Sons & Co., Ltd. Millwall, E.
Stern-Sonneborn Oil Co. 57, Gracechurch St., E.C.
Trier Bros. 1, Gt. George St., S.W.
Willcox W. H., & Co., Ltd. 23, Southwark St., S.E.

Lubricators.

Asbestos Co., Ltd. (Bell's) 59, Southwark St., S.E.
Bailey W. H., & Co., Ltd. Salford, Manchester
Butterworth Bros., Ltd. Newton Heath Glass Works, Manchester

Cedervall F. R., & Son }
Orosby Steam Gage and Valve Co. } 147, Queen Victoria St., E.C.

Guest, Keen & Nettlefolds, Ltd. Birmingham

Hulburd Engineering Co. 150, Leadenhall St., E.C.
Kincaid John G., & Co. Greenock, Scotland
Klinger Richard, & Co. 66, Fenchurch St., E.C.
Körting Brothers, Ltd. 53, Victoria St., Manchester

Piggott Thos., & Co. Springhill, Birmingham
Schäffer & Budenberg, Ltd. Whitworth St., London Rd., Manchester

Smith Bros. & Co. Hyson Green Works, Nottingham

Steam Cylinder Lubricator Co., Ltd. } Gordon Works, Lower Broughton, Manchester
Stern-Sonneborn Oil Co. } 57, Gracechurch St., E.C.

Lubricators.—Continued.

Tangyes Limited	Birmingham
Trier Brothers	1, Gt. George St., S.W.
Vickers Benjn. R., & Sons	Leeds
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.

Machine Tools.

Arbuckle Jas. & Co., Ltd	Ledsam St., Birmingham
Bateman's Machine Tool	
Co., Ltd.	Hunslet, Leeds
Becker R. & Co.	53, City Rd., E.C.
Berry F., & Sons	Calderdale Works, Sow-
Bertram John, & Sons, Co.,	terby Bridge
Ltd.	23 & 25, Victoria St., S.W.
Berry Henry, & Co., Ltd..	Croydon Works, Leeds
Bertrams Ltd.	St. Katherine's Works,
	Sciennes, Edinburgh
Beyer, Peacock & Co., Ltd.	Gorton Foundry, Man-
	chester
Bradbury & Co. Ltd. ..	Wellington Works, Old-
Breuer Schumacher & Co.,	ham
Ltd.	21, Lime St., E.C.
Britannia Engineering Co.,	
Ltd.	Colchester
Buck & Hickman, Ltd. ..	2 & 4, Whitechapel Rd., E.
Buckton Joshua, & Co., Ltd.	Leeds
Burton C.W., Griffiths & Co.	1, 2 & 3, Ludgate Square,
	Ludgate Hill, E.O.
Butler J., & Co.	Victoria Ironwks, Halifax
Cameron John, Ltd. ..	Oldfield Road Ironworks,
	Salford
Carron Co.	Carron, Stirlingshire, N.B.
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., E.C.
Clifton & Waddell	Johnstone, near Glasgow
Consolidated Pneumatic	Palace Ch'brs, 9, Bridge
Tool Co., Ltd.	St., Westminster, S.W.
Craig & Donald, Ltd. ..	Johnstone, near Glasgow
Crow, Harvey & Co. ..	Park Grove Ironworks,
	Glasgow
Davis & Primrose	Bangor Rd., Leith, N.B.
Dean, Smith & Grace, Ltd.	Keighley
De Bergue & Co., Ltd. ..	Manchester
Dempster, Moore & Co., Ltd	49, Robertson St., Glasgow
Fairbairn Macpherson ..	Wellington Foundry,
Flelding & Platt, Ltd. ..	Gloucester (Leeds
Follows Limited	Manchester
German Niles Tool Works	Ober-Schöneweide, near
	Berlin
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Herbert Alfred, Ltd. ..	Coventry
Hetherington John, & Sons	Manchester
Hulse & Co., Ltd.	Salford, Manchester
Jones A. A., Pollard & Ship-	
man, Ltd.	East Park Rd, Leicester
Jones & Lamson Machine	156, Oliver St., Boston,
Co.	Mass., U.S.A.
Lang J., & Sons	Johnstone, N.B.
Leeds Engineering	Providence Works, Cross
Hydraulic Co., Ltd. ..	Stamford St., Leeds
McLellan P. & W., Ltd. ..	29, Trongate, Glasgow
Mitchell D., & Co., Ltd. ..	Keighley, Yorks
Musgrave Bros.	Crown Point Foundry,
	Leeds
Niles-Bement-Pond Co. ..	Hamilton, Ohio, U.S.A.
Niles-Bement-Pond Co. ..	23 & 25, Victoria St., S.W.
Noble & Lund, Ltd. ..	Felling, nr. Newcastle-on-
	Tyne
Pels Henry, & Co.	265B, Strand, W.C.
Pfeil & Co.	145-9, St. John St., E.C.

Machine Tools.—Continued.

Phoenix Dynamo Mfg. Co.,	Thornbury Works, Brad-
Ltd.	ford
Pratt Chuck Co.	Frankfort, New York,
	U.S.A. (Halifax
Pratt F. & Co., Ltd. ..	Machine Tool Works,
Pratt & Whitney Co. ..	Hartford, Conn., U.S.A.
Rice & Co. (Leeds), Ltd. ..	Ellan Rd., Leeds
Richards Geo., & Co., Ltd.	Broadheath, near Man-
	chester
Ryder Thos., & Son ..	Turner Bridge Iron
	Works, Bolton
Ryder William, Ltd. ..	141, Folds Rd., Bolton
Scriven & Co.	Marsh Lane, Leeds
Sellers William, & Co. (In-	Philadelphia, Penn.,
-corporated)	U.S.A.
Shanks Thomas, & Co. ..	Johnstone
Smith & Coventry, Ltd. ..	Ordsal Lane, Manchester
Smith Daniel, & Co. ..	Raglan St., Wolverhamp-
Smith G. F., Ltd.	Halifax, Eng. (ton
Spencer James, & Co. ..	Hollinwood, Manchester
Tangyes Tool and Electric	Oxford Works, Birming-
Co., Ltd.	ham
Taylor Charles	Bartholomew St., Bir-
	mingham
Tallis D. & J., Ltd. ..	Kilbowie Ironworks, near
Vernon & Guest	Soho, Smethwick, near
	Birmingham
Ward H. W., & Co. ..	Lionel St., Birmingham
Ward, Haggas & Smith ..	Keighley
Ward Thos. W., Ltd. ..	Albion Works, Sheffield
Widdowson J. H.	Ordsal Lane, Salford

Manganese Steel Castings and Forgings.

Hadfield's Steel Foundry	
Co., Ltd.	Hecla Works, Sheffield

Manhole Doors.

McNeil C.	Kinning Park Ironworks,
	Glasgow

Mathematical Instruments (Makers).

Lufkin Rule Co.	24 & 26, Holborn (Bu-
	chanan Buildings), E.C.
Vegretti & Zambra	38, Holborn Viaduct, E.C.
Stanley W. F., & Co., Ltd.	286, High Holborn, W.C.
Thornton A. G.	67, St. Mary St., Man-
	chester

Mechanical Engineers (Consulting).

Davey, Paxman & Co., Ltd.	Colchester
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Merchants.

Birch John, & Co., Ltd. ..	3, London Wall Build-
	ings, E.C.

Metallic Packing.

Green & Boulding, Ltd. ..	23, New Bridge St., E.C.
Hulburd Engineering Co. ..	150, Leadenhall St., E.C.
Lancaster & Tonge, Ltd. ..	Pendleton, nr Manchester
Murray, McVinnie & Co. ..	Mavisbank Quay, Glas-
Newton & Nicholson	South Shields (Gow
United States Metallic	Soho Works, Thornton
Packing Co., Ltd.	Rd., Bradford

Metals (Phosphor Alloys, &c.).

Ajax Metal Co.	26, Victoria St., S.W.
Atlas Metal & Alloys Co., Ltd.	52, Queen Victoria St., E.C.
Clillington & Newton ..	Longport, Staffordshire

Metals (Phosphor Alloys, &c.)—Continued.

British Aluminium Co., Ltd.	9, Victoria St., Westminster, S.W.
Bull's Metal & Melloid Co., Ltd.	Yoker, near Glasgow
Delta Metal Co., Ltd.	East Greenwich, S.E.
Eyre Smelting Co., Ltd.	Barden Rd. Works, Tonbridge, Kent
Glacier Anti-Friction Metal Co., Ltd.	91, Queen Victoria St., E.C.
Magnolia Anti-Friction Metal Co. of Great Britain, Ltd.	49, Queen Victoria St., E.C.
Phosphor Bronze Co., Ltd.	Sumner St., S.E.
Steven & Struthers	Glasgow
Storey I., & Sons, Ltd.	Manchester

Motors.

Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Worthington Pump Co., Ltd.	158, Queen Victoria St., E.C.

Misc Merchants.

Wiggins F., & Sons	102 & 103, Minories, E.
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Mill Gearing, Shafting, &c.

Baker Blower Engineering Co.	Stanley St., Wicker, Sheffield
Bessemer Henry, & Co., Ltd.	Sheffield
Bodley Bros. & Co.	Exeter
Brown, Bayley's Steel Wks., Ltd.	Sheffield
Gibbons Bros., Ltd.	Dudley, Worcestershire
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hetherington John, & Sons, Ltd.	Manchester
Jackson P. R., & Co., Ltd.	Manchester
Jessop W., & Sons, Ltd.	Sheffield
Kay James C., & Co., Ltd.	Barnbrook Works, Bury, Lancs.
Kirkstall Forge Co.	Leeds
Mackies Ltd.	Reading
Richards Geo., & Co., Ltd.	Broadheath, near Manchester
Rogerson John, & Co., Ltd.	Wolsingham, R.S.O., Co. Durham
Unbreakable Pulley and Mill Gearing Co., Ltd.	48, West Gorton, Manchester

Mill Machinery (Flour, Corn, and Rice).

Hunter & English	Bow, E.
Marshall, Sons & Co., Ltd.	Gainsborough
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Robinson T., & Son, Ltd.	Rochdale
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Stacey Frank, & Co.	Winchester House, Birmingham
Stamm W. (Krupp Aktiengesellschaft Grusonwerk)	25, College Hill, E.C.
Turner E. K. & F., Ltd.	(182) Ipswich

Milling Cutters and Cutter Blanks.

Jackman Joseph & Co., Ltd.	Persberg Steel Works, Attercliffe Common, Sheffield
Jessop, W. & Sons, Ltd.	Sheffield
Wrigley E. G., & Co., Ltd.	Foundry Lane Works, Soho, Birmingham

Mills (Paint, Oil, Mortar, &c.).

Blackstone & Co., Ltd.	Rutland Works, Stamford
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Krupp Aktiengesellschaft	Magdeburg-Buckau, Germany
Grusonwerk	many
Mason Bros.	Brandon St., Leicester
Smedley Bros., Ltd.	Belper, Derbyshire
Whittaker C., & Co., Ltd.	Accrington

Mining Machinery.

Askham Bros. & Wilson, Ltd.	Sheffield
Bailey W. H., & Co., Ltd.	Salford, Manchester
Baume & Merpent	Moyaux, Haine-St. Pierre, Belgium
Clay Cross Co.	Clay Cross, near Chesterfield
Coles H. J.	London Cranes Works, Colchester (Derby)
Davey, Paxman & Co., Ltd.	Hulme
Davidson & Co.	11, Queen Victoria St., E.C.
Daw A. & Z.	Leeds
Fowler J., & Co. (Leeds), Ltd.	3, London Wall Buildings, E.C.
Fraser & Chalmers, Ltd.	Leeds
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hathorn, Davey & Co., Ltd.	Leeds
Hornsby R. & Sons, Ltd.	Grantham
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London
Jessop W., & Sons, Ltd.	Sheffield
Lacy-Hulbert & Co.	25, Victoria St., S.W.
Marsden H. R.	Soho Foundry, Leeds
Napier Brothers, Ltd.	100, Hyde Park St., Glasgow
Pulsometer Eng. Co., Ltd.	Nine Elms Ironworks, Reading
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Lincoln
Sandycroft Foundry Co., Ltd.	Near Chester
Schram, Harker & Co.	Cannon St. House, E.C.
Stamm W. (Krupp Aktiengesellschaft Grusonwerk)	25, College Hill, E.C.
Tangyes Limited	Birmingham
Worthington Pump Co., Ltd.	153, Queen Victoria St., E.C.

Mint Machinery.

Greenwood & Batley, Ltd.	Armley Rd., Leeds
Taylor & Challen, Ltd.	Birmingham

Mixers.

Benrath Engineering Co.	38, Victoria St., S.W.
Jessop & Appleby Bros. (Leicester & London), Ltd.	Leicester & London

Motor Cars.—(See Motor Vehicles.)**Motor Starters.**

Johnson & Phillips, Ltd.	14, Union Court, E.C.
Spagnoletti J. E., & Co.	Goldhawk Rd., W.

Motor Vehicles.

Alldays & Onions Pneumatic Engineering Co., Ltd. .. Birmingham
 Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
 New Engine Co. .. Acton Hill Wks., Acton, W.
 Peebles Steam Car Co., Ltd. 25, Victoria St., S.W.
 Thornycroft J. I., & Co., Ltd. Chiswick & Basingstoke
 Vauxhall & West Hydraulic Engineering Co., Ltd. .. 45, Leadenhall St., E.C.
 Yorkshire Patent Steam Wagon Co. .. Pepper Rd., Hunslet, Leeds

Moulding Machines.

Jackman J. W., & Co., Ltd. 39, Victoria St., S.W.
 London Emery Works Co. Park, Tottenham, N.
 Whittaker Wm., & Sons .. Oldham

Non-Conducting Compositions.

Asbestos Co., Ltd. (Bell's) 59½, Southwark St., S.E.
 Asbestos Co., Ltd. (The) Dock House, Billiter St., United) .. E.O.
 Cape Asbestos Co., Ltd. .. 8, Minorities, E.C.
 Leroy F., & Co. .. 20, Gray St., Commercial Rd., E. (Durham
 Magnesia Coverings, Ltd. Washington Station, Co.

Nut-Making Machines.

Hasenclever C. W., Söhne Düsseldorf, Germany
 Henschel & Sohn .. Cassel, Germany
 Platt Samuel, Ltd. .. Wedoebury
 Taylor & Challen, Ltd. .. Birmingham

Oil Cans.

Kaye Joe., & Sons, Ltd. .. Lock Works, Leeds

Oil-Distilling Plant.

Napier Bros., Ltd. .. 100, Hyde Pk. St., Glas'w

Oil Extractors.

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
 Baker's Patent Appliances } Melrose St. Wks., Scar-
 Co., Ltd. .. brough
 Haigh W. B., & Co., Ltd. Globe Iron Wks., Oldham
 Holden & Brooke, Ltd. .. Sirius Wks., West Gorton, Manchester
 Royles Limited .. Irlam, near Manchester
 Worthington Pump Co., Ltd. .. 153, Queen Victoria St., E.C.

Oil Filters.

Greenwood & Batley, Ltd. Armley Rd., Leeds
 Valor Co., Ltd. .. Rocky Lane, Aston Cross, Birmingham
 Wells A. C., & Co. .. 102, Midland Rd., St. Pancras, N.W.

Oil Mill Machinery.

Coles H. J. .. London Crane Wks. Derby
 Greenwood & Batley, Ltd. Armley Rd., Leeds
 Manlove, Alliott & Co., Ltd. Nottingham
 Middleton Robert .. Sheepscar Found'y, Leeds
 Musgrave Brothers .. Leeds
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull

Oil Mill Machinery.—Continued.

Stamm W. (Krupp Aktien-geellschaft Grusonwerk) 25, College Hill, E.C.
 Turner E. R. & F., Ltd. .. (132) Ipswich
 Waygood & Co., Ltd. .. Falmouth Rd., S.E.

Oils.—(See Lubricants.)**Ore-Crushing Machinery.**

Bradley Pulverizer Co. .. 37, Walbrook, E.C.
 Davey, Paxman & Co., Ltd. Colchester
 Fraser & Chalmers, Ltd. 3, London Wall Buildings, (E.C.
 Hadfield's Steel Foundry Hecla Works, Sheffield
 Co., Ltd. .. Grantham
 Hornsby R., & Sons, Ltd. (Leicester & London)
 Jessop & Appleby Bros. Leicestershire & London
 Jessop Wm., & Sons, Ltd. Brightside Wks., Sheffield
 Marsden H. R. .. Soho Foundry, Leeds
 Mason Bros. .. Brandon St., Leicester
 Robey & Co., Ltd. .. Lincoln
 Sandycroft Foundry Co., Ltd. Near Chester
 Stamm W. (Krupp Aktien-geellschaft Grusonwerk) 25, College Hill, E.C.
 Turner E. R. & F., Ltd. .. (132) Ipswich

Oxygen Manufacturers.

Scotch & Irish Oxygen Co., Ltd. .. Rosehill Works, Glasgow

Packing (Engine and Hydraulic).—(See also Metallic Packing.)

Ahlers Ad. .. Whitley Bay, Newcastle-on-Tyne
 Angus Geo., & Co., Ltd. St. John's Works, Newcastle-on-Tyne
 Asbestos Co., Ltd. (Bell's) 59½, Southwark St., S.E.
 Asbestos Co., Ltd. (The) Dock House, Billiter St., United) .. E.O.
 Cape Asbestos Co., Ltd. 8, Minorities, E.C.
 Dunlop Rubber Co., Ltd. .. Aston, Birmingham
 Green & Boulding, Ltd. .. 28, New Bridge St., E.C.
 Jenkins Brothers .. 71, John St., New York, U.S.A.
 Klinger Richard, & Co. .. 66, Fenchurch St., E.C.
 Lindsay R. B., & Co. .. 31, Mair St., Plantation, Glasgow
 Moor & Co. .. 165, Princess St., Manchester
 Murray, McVinnie & Co. .. Mavisbank Quay, Glas-
 Reddaway F., & Co., Ltd. Pendleton, Manchester
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull
 Tuck & Co., Ltd. .. 116, Cannon St., E.C.
 United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd. .. 14, Cook St., Liverpool
 United States Metallic Packing Co., Ltd. .. Soho Works, Thornton Rd., Bradford
 Walker James, & Co., .. Lion Works, Garford St., Poplar, E.
 Willcox W. H., & Co., Ltd. 23, Southwark St., S.E.
 Woodite Works .. Mitcham Common, Surrey

Painters and Decorators.

Paul James, & Sons .. 386, Paisley Rd., Glasgow

Paints, Varnishes, &c.

Asbestos Co., Ltd (Bell's) .. 593, Southwark St., S.E.
 Asbestos Co., Ltd. (The) .. Dock House, Billiter St.,
 United) .. E.C.
 Sharon Chemical Co., Ltd. Derby

Paper-Making Machinery.

Douglas & Grant .. Kirkcaldy, N.B.

Paper (Waterproof).

Willesden Paper & Canvas Works .. Willesden Junction, N.W.

Patent Agents.

Alexander E. P., & Son .. 306, High Holborn, W.C.
 Cruikshank & Fairweather .. 62, St. Vincent St., Glas-
 gow [W.C.]
 Harris & Mills .. 23, Southampton Bldgs.,
 Redfern G. F., & Co. .. 4, South St., Finsbury, E.C.
 Thompson W. R. M., & Co. .. 96, Buchanan St., Glasgow
 Vaughan & Son .. 57, Chancery Lane, W.C.
 Watkins Stephen, Son, &
 Groves .. 75, Chancery Lane, W.C.

Pattern Makers.

Brown D., & Sons, Ltd. .. Huddersfield
 Hirst F. .. Folly Hall, Huddersfield
 New Engine Co. .. Acton Hill Works, Acton,
 W.

Perforated Metals.

Barns W., & Son .. Globe Works, Queensland
 Rd., Holloway, N.
 Harvey G. A., & Co. .. Lewisham, S.E.

Permanent Way.

Bagnall W. G., Ltd. .. Castle Engine Works,
 Stafford
 Birch John, & Co., Ltd. .. 3, London Wall Buildings,
 E.C. [E.C.]
 Bolling & Lowe .. Laurence Pountney Hill,
 Cutbill-King & Co. .. 26, Nicholas Lane, E.C.
 Dick, Kerr & Co., Ltd. .. Abchurch Yard, Cannon
 St., E.C.
 Grevenor J. & H. .. Eldon St. House, E.C.
 Isca Foundry & Eng. Co. .. Newport, Mon.
 Summerson Thomas, and
 Sons, Ltd. .. Darlington
 Zadig C. A., & Co. .. 73, Queen Victoria St., E.C.

Photography and Materials and Appliances for Photographic Printing and Copying Processes.

Halden J., & Co. .. 8, Albert Sq., Manchester
 Marion & Co., Ltd. .. 22 & 23, Soho Square, W.
 Salmoiraghi A., & C. .. Milano, Italy
 Shaw L. .. 39, Victoria St., S.W.
 Stanley W. F., & Co., Ltd. .. Railway Approach, London
 Bridge, S.E.
 Thornton A. G. .. 67, St. Mary St., Man-
 chester

Picks, Shovels and Spades.

Hadfield's Steel Foundry Co., Ltd. .. Hecla Works, Sheffield
 Rogerson John, & Co., Ltd. .. Wolsingham, R.S.O., Co.
 Durham

Pile Drivers.

Gibbins R. C., & Co. .. Berkley St., Birmingham
 Jessop & Appley Brcs. .. Leicester & London
 (Leicester & London), Ltd. .. Caxton House, West-
 minster, S.W.
 Lidgeewood Mfg. Co. .. Bridgewater F'dry, Patri-
 croft, near Manchester
 Nasmyth, Wilson & Co., Ltd. .. Horsforth, near Leeds
 Whitaker Bros., Ltd. ..

Piles and Pile Shoes.

Jessop W., & Sons, Ltd. .. Brightside Wks., Sheffield
 Le Grand & Sutcliff .. 125, Bunhill Row, E.C.
 Williams Samuel, & Sons, Ltd. (Concrete) .. 36, Lime St., E.C.

Pipe Founders.—(See also Tubes.)

Abbot John, & Co., Ltd. .. Gateshead-on-Tyne
 Clay Cross Co. .. Clay Cross, near Chester-
 field
 Haley E. & W. H. .. Bradford
 Isca Foundry & Engineer-
 ing Co. .. Newport, Mon.
 Pulsometer Engineering .. Nine Elms Ironworks,
 Co., Ltd. .. Reading
 Sheepbridge Coal & Iron
 Co., Ltd. .. Chesterfield
 Wood E. D., & Co. .. Philadelphia, U.S.A.

Pipe Screwing and Cutting Machinery.

Heap Joshua, & Co., Ltd. .. Ashton-under-Lyne
 Hulse & Co., Ltd. .. Salford, Manchester
 Platt Samuel, Ltd. .. Wednesbury
 Tangye Tool & Electric Co., Ltd. .. Oxford Works, Birming-
 ham

Pipes (Drain and Stoneware).

Doulton & Co., Ltd. .. Lambeth, S.E.

Pipes (Large and Lap-welded. — (See also Tubes.)

Aird Jos. .. Gt. Bridge, Staffordshire
 Balcke, Tellerling & Cie. .. Akt. Ges. .. Benrath, near Dusseldorf
 Deighton's Patent Flue & Tube Co., Ltd. .. Vulcan Works, Papp-
 Rd., Leeds [field
 Howell & Co., Ltd. .. Brook Steel Works, Shef-
 Lysaght John, Ltd. .. St. Vincent Ironworks,
 Bristol
 Marshall John, & Sons .. Glasgow
 Piggott Thos., & Co., Ltd. .. Springhill, Birmingham
 Russell James, & Sons, Ltd. .. Crown Tube Wks., Wed-
 nesbury
 Stewarts & Lloyds, Ltd. .. 41, Oswald St., Glasgow,
 and Nile St., Birm'gh'm

Pistons and Piston Rings.

Edmeston A., & Sons .. Patricroft, nr. Manchester
 Jackson P. R., & Co., Ltd. .. Manchester
 Lancaster & Tonge, Ltd. .. Pendleton, Manchester
 Lockwood & Carlisle, Ltd. .. Eagle Foundry, Sheffield
 McNeil C. .. Kinning Park Ironworks,
 Glasgow
 Standard Piston Ring and Premier Works, Went-
 Engineering Co., Ltd. .. worth St., Sheffield

Planing Machines.—(See Machine Tools.)

Plates (Iron and Steel).

Beardmore Wm., & Co., Ltd.	Parkhead Ironwks., Glas-
Brown, Bayley's Steel Wks., Ltd.	gow
Brown John, & Co., Ltd.	Sheffield
Colville David, & Sons, Ltd.	Sheffield
Firth William, Ltd.	Motherwell, nr. Glasgow
Glasgow Iron & Steel Co., Ltd.	Water Lane, Leeds
Jessop Wm., & Sons, Ltd.	Wishaw Iron & Steel Works, Wishaw
Lanarkshire Steel Co., Ltd.	Sheffield
Leeds Forge Co., Ltd.	Motherwell, N.B.
Shelton Iron, Steel and Coal Co., Ltd.	Leeds
Spencer John, & Sons, Ltd.	Stoke-on-Trent; and 122 Cannon St., E.O.
Steel Co. of Scotland, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
	23, Royal Exchange Sq., Glasgow

Plumber Blocks.

Carver C. F., Ltd.	Nottingham
Coles H. J.	London Crane Works
Garnett P. & Co., Ltd.	Cleckheaton [Derby
Mackies, Ltd.	Berks Ironwks., Reading
Platt Samuel, Ltd.	Wednesbury
Richards Geo., & Co., Ltd.	Broadheath, near Man-
Smith & Grace Screw Boss Pulley Co., Ltd.	chester
Taylor & Challen, Ltd.	Thrapston
Unbreakable Pulley & Mill Gearing Co., Ltd.	Birmingham
	48, West Gorton, Man-
	chester

Pneumatic Tools.

Consolidated Pneumatic Tool Co., Ltd.	Palace Ch'brs, 9, Bridge St., Westminster, S.W.
Dudgeon F. S.	30, Great St. Helen's, E.C.
German Niles Tool Works	Ober-Schöneweide, near Berlin
Globe Pneumatic Engineering Co., Ltd.	150, Queen Victoria St., E.C.
Hartung, Kuhn & Co.	Dusseldorf
Howard Pneumatic Engineering Co., Ltd.	Fort Rd., Eastbourne
Ingersoll-Rand Co.	114, Queen Victoria St., E.C.
United States Metallic Packing Co., Ltd.	Soho Works, Bradford

Polishing Machinery and Materials.

Canning W., & Co.	Birmingham
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Portable Engines.—(See Engines, Portable.)**Portable Railways.—(See Railways, Portable.)****Pottery and Encaustic Tile Machinery.**

Bodley Brothers & Co.	Exeter
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Presses (Power).

Breuer Schumacher & Co., Ltd.	21, Lime St., E.C.
Fawcett, Preston & Co., Ltd.	Liverpool
Stewart D. & Co. (1902), Ltd.	London Rd. Ironworks, Glasgow
Taylor & Challen, Ltd.	Birmingham
Vereinigte Servais-Werke A.G.	Ehrang bei Trier, Ger-
	many

Presses (Hydraulic).—(See Hydraulic Presses.)**Printers and Stationers.**

Partridge & Cooper, Ltd.	191 & 192, Fleet St., E.O.
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Printing Machinery.

Greenwood & Batley, Ltd.	Armley Rd., Leeds
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Propeller Shafts (Lubricators for).

Kincaid John G., & Co.	Greenock, Scotland
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Propellers.

Baker Blower Engineering Co.	Stanley St., Wicker, Shef-
	field
Bryan Donkin Company, Ltd. (Air)	Chesterfield
Ross & Duncan	Glasgow
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-
	on-Tyne
Thornycroft J. I., & Co., Ltd.	Chiswick, W., and South-
	ampton

Publishers.

Batsford B. T.	94, High Holborn, W.O.
Chapman & Hall, Ltd.	11, Henrietta St., W.O.
Constable A., & Co., Ltd.	16, James St., Hay-
	market, S.W.
"Engineering," Ltd.	35 & 36, Bedford St., W.O.
Griffin Chas., & Co., Ltd.	Exeter St., Strand, W.O.
Lockwood, Crosby & Son.	7, Stationers' Hall Court, E.C.
Longmans, Green & Co.	39, Paternoster Row, E.C.
Spon E. & F. N., Ltd.	57, Haymarket, S.W.
Stevens James	9, Fenchurch Avenue, E.C.
Whittaker & Co.	White Hart St., Pater-
	noster Square, E.C.

Pulley Blocks.

Bailey W. H., & Co., Ltd.	Salford, Manchester
Burton C. W., Griffiths & Co.	1, 2 & 3, Ludgate Square, Ludgate Hill, E.O.
Gibbins R. C., & Co.	Berkley St., Birmingham
Glasgow Electric Crane and Hoist Co., Ltd.	Parkhead, Glasgow
Godfrey J. T.	24A, High St., Lough-
	borough, Leicest'rshire
Kramos Ltd.	Bath
Mork Patent Pulley Block Co.	42-44, Moor Lane, E.O.
Tangyes Limited	Birmingham
Veithardt & Hall, Ltd.	41, Eastcheap, E.C.
Warden A., & Co.	60, Great Eastern St., E.C.
Youngs	Ryland St. Works, Bir-
	mingham

Pulleys (Cast Iron).

Bagshaw J., & Sons, Ltd.	Batley, Yorkshire
Bodley Brothers & Co.	Exeter
Croft & Perkins	Thornberry Rd., Bradford
Fraser Douglas, & Sons	Arbroath, Scotland
Garnett P. & C., Ltd.	Cleckheaton
Jackson P. R., & Co., Ltd.	Manchester
Kay James C., & Co., Ltd.	Barnbrook Works, Bury, Lancs.
Mackies Ltd.	Berks Ironwks., Reading
Platt Samuel, Ltd.	Wednesbury
Reader E., & Sons	Phonix Wks., Nott'ham
Richards Geo., & Co., Ltd.	Broadheath, near Man-
	chester

Pulleys (Cast Iron).—Continued.

Smith & Grace Screw Boss	
Pulley Co., Ltd.	Thrapston
Taylor & Challen, Ltd. . .	Birmingham
Unbreakable Pulley & Mill	4 th , West Gorton, Man-
Gearing Co., Ltd.	chester
Webb, Peet & Co.	Westgate Ironworks,
	Gloucester

Pulleys (Wood).

Buck & Hickman, Ltd. . .	2 & 4, Whitechapel Rd., E.
Carver C. F., Ltd.	Nottingham
Gandy Belt Manufacturing	Wheatland Works, Sea-
Co., Ltd.	combe, Cheshire
Platt Samuel, Ltd.	Wednesbury

Pulleys (Wrought Iron and Steel).

Bagshaw J., & Sons, Ltd. . .	Batley, Yorkshire
Carver C. F., Ltd.	Nottingham
Croft & Perkins	Thornberry Rd., Bradford
Douglas, Lawson & Co. . .	Birstall, near Leeds
Fraser Douglas, & Sons . .	Arbroath
Garnett P. & C., Ltd. . . .	Cleckheaton
Gimson & Co. (Leicester),	Leicester
Ltd.	
Hudewell, Clarke & Co., Ltd.	Railway Foundry, Leeds
Mackies Ltd.	Berks Ironwks., Reading
Platt Samuel, Ltd.	Wednesbury
Richards Geo., & Co., Ltd.	Broadheath, near Man-
Smith & Grace Screw Boss	chester
Pulley Co., Ltd.	Thrapston
Unbreakable Pulley & Mill	48, West Gorton, Man-
Gearing Co., Ltd.	chester
Webb, Peet & Co.	Westgate Ironworks,
	Gloucester

Pulverizers.

Bradley Pulverizer Co. . .	37, Walbrook, E.C.
Fraser & Chalmers, Ltd. . .	3, London Wall Buildings,
Hardy Patent Pick Co., Ltd.	Sheffield [E.C.]
Schwartzkopf Coal-Dust	
Firing Syndicate	Haydock, near St. Helens
Stamm W. (Krupp Aktien-	
gesellschaft Grusonwerk)	25, College Hill, E.C.

Pumps (Air).—(See Air Pumps.)**Pumps (Centrifugal).**

Allen W. H., Son, & Co.,	Queen's Engineering
Ltd.	Works, Bedford
Bailey W. H., & Co., Ltd.	Salford Manchester
Belliss & Morcom, Ltd. . .	Birmingham
Campbell & Calderwood . .	Soho Engine Wks., Paisley
Cherry John, & Sons	Pump Works, Beverley,
	Yorkshire
Drysdale & Co.	Bon Accord Engine Wks.,
	Glasgow
Gunther W., & Sons	Central Works, Oldham
Gwynnes Ltd.	81, Cannon St., E.C.
Hathorn, Davey & Co., Ltd.	Leeds
Heenan & Froude, Ltd. . .	Manchester
Marshall, Sons & Co., Ltd.	Gainsborough
Marx J., & Co.	133-9, Finsbury Pave-
	ment, E.C.
Nell Frederic	46, Queen Victoria St., E.C.
Owens S., & Co.	Whitefriars St., E.C.
Paul Matthew, & Co., Ltd.	Levenford Works, Dum-
	barton

Pumps (Centrifugal).—Continued.

Pulsometer Engineering	Nine Elms Ironworks,
Co., Ltd.	Reading
Ruston, Proctor & Co., Ltd.	Sheaf Ironwks., Lincoln.
Scott Ernest, & Mountain,	Close Works, Newcastle-
Ltd.	on-Tyne
Simons W., & Co., Ltd. . .	Renfrew, N.B.
Sulzer Bros.	34, Norfolk St., W.C.
Tangyes Limited	Birmingham
Vauxhall & West Hydraulic	
Engineering Co., Ltd. . .	45, Leadenhall St., E.C.
Warner R., & Co.	97, Queen Victoria St., E.C.
Watson Henry, & Sons . . .	High Bridge Works, New-
	castle-on-Tyne
Worthington Pump Co.,	153, Queen Victoria St.,
Ltd.	E.C.

Pumps (Colonial).

Bailey W. H., & Co., Ltd. . .	Salford, Manchester
Jessop & Appleby Bros.	
(Leicester & London), Ltd.	Leicester & London
Pulsometer Engineering	Nine Elms Ironworks,
Co., Ltd.	Reading
Warner R., & Co.	97, Queen Victoria St., E.C.
Worthington Pump Co.,	153, Queen Victoria St.,
Ltd.	E.C.

Pumps (Donkey).

Bailey W. H., & Co., Ltd.	Salford, Manchester
Cameron John, Ltd.	Oldfield Rd. Ironworks,
Clarke, Chapman & Co.,	[Salford]
Ltd.	Gateshead-upon-Tyne
Cochrane John	Barrhead, N.B. [Derby
Coles H. J.	London Crane Works,
Consolidated Engineering	
Co., Ltd.	Slough
Hathorn, Davey & Co., Ltd.	Leeds
Lane J. J., Ltd.	Cranbrook St., Old Ford,
	E.
Mumford A. G., Ltd.	Culver St. Ironworks,
	Colchester
Owens S., & Co.	Whitefriars St., E.C.
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Pulsometer Engineering	Nine Elms Ironworks,
Co., Ltd.	Reading
Robey & Co., Ltd.	Lincoln
Roger R., & Co., Ltd. . . .	Stockton-on-Tees
Scott Ernest, & Mountain,	Close Works, Newcastle-
Ltd.	on-Tyne
Tangyes Limited	Birmingham
Toward T., & Co.	9, St. Lawrence, New-
Vauxhall & West Hydraulic	[castle-on-Tyne
Engineering Co., Ltd. . .	45, Leadenhall St., E.C.
Voepel & Co., Ltd.	Portsmouth [E.C.]
Warner R., & Co.	97, Queen Victoria St.,
Worthington Pump Co.,	153, Queen Victoria St.,
Ltd.	E.C.

Pumps and Pumping Machinery.

Abbot John, & Co., Ltd. . .	Gateshead-on-Tyne
Allen W. H., Son, & Co.,	Queen's Engineering
Ltd.	Works, Bedford
Bailey W. H., & Co.	Salford, Manchester
Baker Blower Engineering	Stanley St., Wicker, Shef-
Co.	field
Belliss & Morcom, Ltd. . .	Birmingham
Berry Henry, & Co., Ltd. . .	Croydon Works, Leeds

Pumps & Pumping Machinery.—Continued.

Bever, Dorling & Co., Ltd.	Bowling Ironworks, Bradford
Bumsted & Chandler	Hednesford, Staffs.
Caledonian Engineering & Shipbuilding Co.	Preston, Lancashire
Cameron John, Ltd.	Oldfield Rd. Ironworks, Salford
Campbell Gas Engine Co., Ltd.	Halifax, England
Carruthers J. H., & Co., Ltd.	Polmadie Ironworks, Glasgow
Chaplin Alex. & Co.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Clay Cross Co.	Clay Cross, near Chesterfield
Clirehugh S. V.	4, Queen Victoria St., E.C.
Cochrane John	Barrhead, N.B. (Derby)
Coles H. J.	London Crane Works, London
Crow, Harvey & Co.	Park Grove Ironworks, Colchester (Glasgow)
Davey, Paxman & Co., Ltd.	49, Robertson St., Glasgow
Demptre, Moore & Co., Ltd.	Douglas Wharf, Putney, S.W.
Douglas Wm., & Sons, Ltd.	Bon Accord Engine Wks., (Glasgow)
Drysdale & Co.	Millwall, E.
East Ferry Road Engineering Works Co., Ltd.	3 & 5, Crown Ct., Old Broad St., E.C.
Edwards Air Pump Syndicate, Ltd.	Wolverhampton
Evans Joseph, & Sons	Liverpool
Fawcett, Preston & Co., Ltd.	Gloucester
Fielding & Platt, Ltd.	Paisley, N.B. (E.C.)
Fleming & Ferguson, Ltd.	3, London Wall Buildings, Vulcan Foundry and Engine Works, Paisley
Fraser & Chalmers, Ltd.	Kilmarnock, N.B.
Fullerton, Hodgart and Barclay, Ltd.	Armley Rd., Leeds
Glenfield & Kennedy, Ltd.	81, Cannon St., E.C.
Greenwood & Batley, Ltd.	Peterborough
Gwynnes Ltd.	Paisley
Hall J. P., & Sons, Ltd.	Lindon vor Hannover, Germany
Hanna, Donald & Wilson	Crown Buildings, Crown Ct., Old Broad St., E.C.
Hannoversche Maschinenbau-Aktien-Gesellschaft vormals Georg Egestorff	Leeds
Haste Pump Co., Ltd.	99, Queen Victoria St., E.C.
Hathorn, Davey & Co., Ltd.	Sirius Wks., West Gorton, Manchester
Hayward-Tyler & Co., Ltd.	Grantham
Holden & Brooke, Ltd.	47, Victoria St., S.W.
Hornsby R., & Sons, Ltd.	Bow, E.
Hughes & Lancaster	Newport, Mon.
Hunter & English	Artesian Works, Bear (Lane, S.E.)
Isea Foundry & Eng. Co.	Leicester & London
Iser O., & Co.	101, Leadenhall St., E.C.
Jessop & Appleby Bros. (Leicester & London), Ltd.	53, Victoria St., S.W.
Kirkaldy John, Ltd.	25, Victoria St., S.W.
Körting Brothers, Ltd.	Pendleton, near Manchester
Lacy-Hulbert & Co.	125, Bunhill Row, E.O.
Lancaster & Tonge, Ltd.	Providence Works, Cross Stamford St., Leeds
Le Grand & Sutcliffe	Renfrew, Scotland
Leeds Engineering and Hydraulic Co., Ltd.	Nottingham
Lobnitz & Co., Ltd.	133-9, Finsbury Pavement, E.C.
Manlove, Alliott & Co., Ltd.	Boston, Mass., U.S.A.
Marx J., & Co.	63, Long Acre, W.C.
Mason Regulator Co.	
Merryweather & Sons	

Pumps & Pumping Machinery.—Continued.

Mumford A. G., Ltd.	Culver St. Ironworks, Colchester
Musgrave Bros.	Crown Point Foundry, Liverpool (Leeds)
Musker C. A., & Co., Ltd.	Bridgewater F'dry., Patricroft, near Manchester
Nasmyth, Wilson & Co., Ltd.	46, Queen Victoria St., E.C.
Nell Frederic	Whitefriars St., E.C.
Owens S., & Co.	Newcastle-on-Tyne
Parsons C. A., & Co.	Levenford Works, Dum-
Paul Matthew, & Co., Ltd.	Manchester (barton)
Pearn Frank, & Co., Ltd.	Springhill, Birmingham
Piggott Thos., & Co., Ltd.	Nine Elms Ironworks, Ipswich (Reading)
Pulsometer Eng. Co., Ltd.	
Ransomes & Rapier, Ltd.	
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Robey & Co., Ltd.	Lincoln
Ruston, Proctor & Co., Ltd.	Sheaf Ironworks, Lincoln
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Shore T., & Sons	Etruria, Stoke-on-Trent
Stothert & Pitt, Ltd.	Bath
Sulzer Bros.	34, Norfolk St., W.C.
Tangyes Limited	Birmingham
Tatzel Ed.	Troppau, Austria
Thwaites Brothers, Ltd.	Bradford
Vauxhall & West Hydraulic Engineering Co., Ltd.	45, Leadenhall St., E.C.
Warner R., & Co.	97, Queen Victoria St., E.C.
Watson Henry, & Sons	High Bridge Works, Newcastle-on-Tyne
Weir G. & J., Ltd.	Cathcart, Glasgow
Westinghouse Brake Co., Ltd.	York Rd., King's Cross, N.
Willcox W. H., & Co., Ltd.	23, Southwark St., S.E.
Worthington Pump Co., Ltd.	153, Queen Victoria St., E.C.

Pumps (Vacuum).

Anderson Foundry Co., Ltd.	Glasgow
Blair, Campbell & McLean, Ltd.	Woodville St., Govan, Glasgow
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Parsons Marine Steam Turbine Co., Ltd.	Turbinia Works, Wallsend-on-Tyne
Reavell & Co., Ltd.	Ipswich

Punching and Shearing Machines.

Becker R., & Co.	53, City Rd., E.C.
Berry F., & Sons	Calderdale Ironworks, Sowerby Bridge
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Bertrams Ltd.	St. Katherine's Works, Sciennes, Edinburgh
Breuer Schumacher & Co., Ltd.	21, Lime St., E.C.
Cameron John, Ltd.	Oldfield Rd. Ironworks, Salford
Craig & Donald, Ltd.	Johnstone, near Glasgow
De Bierge & Co., Ltd.	Strangeways Ironworks, Manchester
Fielding & Platt, Ltd.	Gloucester
Greenwood & Batley, Ltd.	Armley Rd., Leeds
Hetherington John, & Sons, Ltd.	Manchester
Hulse & Co., Ltd.	Salford, Manchester

Punching and Shearing Machines.—Continued.

Leeds Engineering & Hydraulic Co., Ltd. . . .	Providence Works, Cross St., Leeds
McOnie A. & P. W. . . .	Govan, Glasgow
Mitchell D. & Co., Ltd. . .	Keighley, Yorks
Musgrave Bros. . . .	Leeds
Pels Henry, & Co. . . .	2458, Strand, W.C.
Pollock, Macnab & Highgate	Shettleston, Glasgow
Rice & Co. (Leeds), Ltd. . .	Elland Rd., Leeds
Smith Brothers & Co. . . .	Kingston Engine Works, Glasgow
Smith Daniel, & Co. . . .	Raglan St., Wolverhampton
Tangye Tool & Electric Co., Ltd. . . .	Oxford Works, Birmingham

Pyrometers.

Scientific Instrument Co., Ltd.	Cambridge
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Rail Benders.

Fielding & Platt, Ltd. . .	Gloucester
Gibbins R. C., & Co. . .	Berkley St., Birmingham
Tangyes Limited . . .	Birmingham
Youngs	Ryland St. Works, Birmingham

Rail Lifters.

De Borge & Co., Ltd. . .	Manchester
Gibbins R. C., & Co. . .	Berkley St., Birmingham
Youngs	Ryland St. Works, Birmingham

Rails (Steel and Iron).

Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Brown, Bailey's Steel Works, Ltd.	Sheffield
Cammell Laird & Co. Ltd. .	Sheffield
Colville David, & Sons, Ltd. .	Motherwell, nr. Glasgow
Continuous Rail Joint Co. of Great Britain, Ltd. . .	20, King William St., E.C.
English McKenna Process Co., Ltd.	Dock Rd., Seacombe, Birkenhead; & York Mansion, Westminster, S.W.
Firth William, Ltd. . . .	Water Lane, Leeds
Kerr, Stuart & Co., Ltd. . .	1, Broad St. Place, E.C.
Sheepbridge Coal & Iron Co., Ltd.	Sheffield
Shelton Iron, Steel, & Coal Co., Ltd. . . .	Stoke-on-Trent, & 122, Cannon St., E.C.
Steel Co. of Scotland, Ltd. .	23, Royal Exchange Square, Glasgow

Railway and Contractors' Plant.

Alldays & Onions Pneumatic Engineering Co., Ltd. . .	Birmingham
Bagnall W. G., Ltd. . . .	Castle Engine Works, Stafford
Beyer, Peacock & Co., Ltd. .	Manchester (E.C.)
Birch John, & Co., Ltd. . .	3, London Wall Buildings, 2, Laurence Pountney Hill, E.C.
Bolling & Lowe	Sheffield
Brown, Bailey's Steel Works, Ltd.	Sheffield
Brush Elect. Eng. Co., Ltd. .	Falcon Wks., Loughboro'
Compagnie Centrale de Construction, Ltd. . .	Dashwood House, New Broad St., E.C.
Cutbill-King & Co. . . .	26, Nicholas Lane, E.C.
Dick, Kerr & Co., Ltd. . .	Abchurch Yard, Cannon Leeds (St., E.C.)
Fowler J., & Co. (Leeds), Ltd. .	

Railway and Contractors' Plant.—Continued.

Gibbins R. C., & Co. . .	Berkley St., Birmingham
Hadfield's Steel Foundry Co., Ltd.	Hecla Works, Sheffield
Hurst, Nelson & Co., Ltd. .	Motherwell, N.B.
Iscia Foundry & Engineering Co.	Newport, Mon.
Leeds Forge Co., Ltd. . .	Leeds (minster, S.W.)
Lidgerwood Mfg. Co. . .	Caxton House, West
Lubecker Machine and Manufacturing Co. . . .	30, Gt. St. Helen's, E.C.
McLachlan & Co., Ltd. . .	Darlington
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Stableford & Co., Ltd. . .	Coalville
Stamm W. (Krupp Aktiengesellschaft Grusonwerk)	25, College Hill, E.C.
Summerson Thomas, and Sons, Ltd.	Darlington
Taylor's Patent Shunting Lever, Ltd.	29, Regent St., S.W.

Railway Signals.

Iscia Foundry & Engineering Co.	Newport, Mon.
Spagnoletti J. E., & Co. . .	Goldhawk Rd., W.

Railway Wheels.—(See Wheels, Railway.)**Railways (Light and Portable).**

Bagnall W. G., Ltd. . .	Stafford (E.C.)
Birch John, & Co., Ltd. . .	3, London Wall Buildings,
Bolling & Lowe	2, Laurence Pountney Hill, E.C.
Continuous Rail Joint Co. of Great Britain, Ltd. . .	20, King William St., E.C.
Dick, Kerr & Co., Ltd. . .	Abchurch Yard, Cannon St., E.C.
Fowler J., & Co. (Leeds), Ltd.	Leeds
Kerr, Stuart & Co., Ltd. . .	1, Broad St. Place, E.C.
McLachlan & Co., Ltd. . .	Darlington
Zadig C. A., & Co. . . .	73, Queen Victoria St., E.C.

Rawhide Wheels.—(See Wheels—Rawhide.)**Reducing Valves.**

Auld David, & Sons . . .	Whitevale F'dry, Glasgow
Bailey W. H., & Co., Ltd. .	Salford, Manchester
Vason Regulator Co. . .	Boston, Mass., U.S.A.
Royles Limited	Irlam near Manchester
Schäffer & Budenberg, Ltd. .	Whitworth St., London Rd., Manchester
Scotch and Irish Oxygen Co., Ltd.	Rosehill Works, Glasgow

Refrigerating Machinery.

Douglas & Grant	Dunnikier Foundry, Kirkcaldy, N.B.
Hall J. & E., Ltd.	Dartford Ironworks, Kent
Haslam Foundry & Engineering Co., Ltd. . .	Union Foundry, Derby
Mirreles Watson Co., Ltd. .	Scotland St., Glasgow
Pontifex & Wood, Ltd. . .	Union Foundry, Derby
Fulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Sterne L., & Co., Ltd. . .	Crown Ironwks., Glasgow

Rice-Dressing Machinery.

Douglas & Grant Kirkcaldy, N.B.
 Hunter & English Bow, London, E.
 Waygood & Co., Ltd. .. Falmouth Rd., S.E.

Rivets.—(See Bolts, Rivets, &c.)**Riveting Machines.**

Arrol Sir William, & Co., Dalmarnock Ironworks,
 Ltd. Bridgeton, Glasgow
 Berry Henry, & Co., Ltd. Croydon Works, Leeds
 Breuer Schumacher & Co.,
 Ltd. 21, Lime St., E.C.
 Crow, Harvey & Co. .. Park Grove Ironworks.
 De Bergue & Co., Ltd. Manchester (Glasgow
 Drysdale & Co. Bon Accord Engine Wks.,
 Glasgow
 Fielding & Platt, Ltd. Gloucester
 Globe Pneumatic Engineer-
 ing Co., Ltd. 150, Queen Victoria St.,
 E.C.
 Macrae Bros. Crown Pat. Fndry., Leeds
 Rice & Co. (Leeds), Ltd. .. Neville Works, Elland
 Rd., Leeds

Road Rollers (Steam).

Aveling & Porter, Ltd. .. Rochester
 Green Thomas, & Son, Ltd. Smithfield Iron Works,
 Leeds; and New Surrey
 Works, Southwark St.,
 Marshall, Sons, & Co., Ltd. Gainsborough [S.E.]

Rock Drills.

Bechem & Keetman .. Duisburg, Germany
 Coles H. J. London Crane Works,
 Derby
 Daw A. & Z. 11, Queen Victoria St., E.C.
 Fraser & Chalmers, Ltd. .. 3, London Wall Buildings,
 E.C.
 Ingersoll-Rand Co. .. 114, Queen Victoria St.,
 E.C.
 Jessop & Appleby Bros.
 (Leicester & London), Ltd. Leicester & London
 Schram, Harker & Co. .. Cannon St. House, E.O.

Roller Bearings.—(See Bearings, Roller.)**Rolling Mill Machinery.—(See Iron and Steel Works, Plant for.)****Rolling Mills (for Metals).—(See also Iron & Steel Works, Plant for.)**

Jones George, Ltd. .. Lionel St., Birmingham

Rolls (Chilled and Grain).

Jones George, Ltd. .. Lionel St., Birmingham
 Staun W. (Krupp Aktien-
 gesellschaft Grusonwerk) 25, College Hill, E.C.

Roofs (Iron, Steel and Zinc).

Abbot John, & Co., Ltd. .. Gateshead-on-Tyne
 Arrol's Bridge & Roof Co.,
 Ltd. Germiston Wks., Glasgow
 Ash Joseph, & Son Rea Wks., Rea St South,
 Ashmore, Benson, Pease &
 Co., Ltd. [Birmingham]
 Baldwin Ltd. Stockton-on-Tees
 Cleveland Bridge & En-
 gineering Co., Ltd. .. 5, Fenchurch St., E.C.
 Darlington

Roofs (Iron, Steel and Zinc).—Continued.

Clyde Structural Iron Co., } Clydeside Ironworks,
 Ltd. Scotstoun, Glasgow
 Craig A. F., & Co., Ltd. .. Paisley, N.B.
 De Bervie & Co., Ltd. .. Manchester
 Finch Edward, & Co., Ltd. Chepstow
 Gibbons Bros., Ltd. .. Dudley, Worcestershire
 Handyside Andrew, & Co.,
 Ltd. Britannia Ironworks, Derby
 Hanna, Donald & Wilson Tinsdale Ironworks,
 Head, Wrightson & Co., Ltd. .. Thornaby-on-Tees
 Heenan & Froude, Ltd. .. Newton Heath Ironworks,
 near Manchester
 Hill & Smith Brierley Hill Ironworks,
 Isca Foundry & Engineer-
 ing Co. [near Dudley, Staffs.]
 Keep F. A., Juxon & Co. .. Newport, Mon.
 Lysaght John, Ltd. Barn St., Birmingham
 St. Vincent Ironworks.
 Bristol [last
 Newtownaris Rd., N.B.]
 McTear & Co., Ltd. Scotstoun Iron Works,
 [Glasgow]
 Wednesbury
 Springhill, Birmingham
 Stoke-on-Trent
 Eglinton Engine Works,
 [Glasgow]
 Middlesbrough

Rope Tramways.

Bleichert Adolf, & Co. .. 76, Cheapside, E.C.
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.
 Lidgerwood Mfg. Co. .. Caxton House, West-
 minster, S.W.
 Pohlig J., Ltd. Cologne

Ropes (Wire).—(See Wire & Wire Rope Makers.)**Safety Apparatus.**

Klinger Richard, & Co. .. 66, Fenchurch St., E.C.

Sand Mixers.

Hall J. S. Midland Ironworks, Ne-
 wark-on-Trent

Sand (Moulding).

Mansfield Sand Co., Ltd. .. Mansfield, Notts.

Sanitary Appliances.

Doulton & Co., Ltd. .. Lambeth, S.E.
 Glenfield & Kennedy, Ltd. Kilmarnock, N.B.
 Hughes & Lancaster .. 47, Victoria St., S.W.

Saw Makers.

Beardshaw J., & Son, Ltd. Sheffield
 Carron Co. Carron, Stirlingshire, N.B.
 Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheff.

Saw Mill Machinery.—(See Wood Working Machinery.)**Screens.**

Barns W., & Son Globe Works, Queensland
 Rd., Holloway, N.

Screw Propellers and Propeller Blades.

Billington & Newton	Longport, Stoke-on-Trent
Brown John, & Co., Ltd.	Sheffield
Hadfield's Steel Foundry Co., Ltd.	Hedra Works, Sheffield
Jessop Wm., & Sons, Ltd.	Sheffield
Rogerson J., & Co., Ltd.	Wolsingham, E.S.O., Co Durham
Spencer John, & Sons, Ltd.	Newburn Steel Works Newcastle-on-Tyne

Screwing Machines.

Chatwin Thos.	Great Tindal St., Birmingham
Daniell S. A., Ltd.	Lion Works, Birmingham
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Hulse & Co., Ltd.	Salford, Manchester
Niles-Bement-Pond Co.	Hamilton, Ohio, U.S.A.
Platt Samuel, Ltd.	Wednesbury
Shanks Thomas, & Co.	Johnstone
Tangye Tool & Electric Co., Ltd.	Oxford Works, Birmingham

Search Lights.

British Thomson-Houston Co., Ltd.	83, Cannon St., E.C.
Clarke, Chapman & Co., Ltd.	Gateshead-upon-Tyne
Johnson & Phillips, Ltd.	Victoria Works, Old Charlton, Kent
Salmoiraghi A., & C.	Milano, Italy

Second-hand Tools, &c.

Britannia Co.	Colchester
Butters Bros. & Co.	20, Waterloo St., Glas.
Smith G. F., Ltd.	Halifax [Gow]
Ward Thos. W., Ltd.	Albion Works, Sheffield
Wilson Alex.	3, Lombard Court, E.C.

Separators, Magnets, &c.

Kuettner, Macdonell and Cookson, Ltd.	27, Endell St., W.C.
Rapid Magnetizing Machine Co., Ltd.	Birmingham

Shafting and Shaft Fittings.—(See also *Plummer Blocks*.)

Andrews Thomas, & Co.	St. James St., Sheffield
Bagshaw J., & Sons, Ltd.	Batley, near Leeds
Bessemer Hy., & Co., Ltd.	Sheffield
Brown, Bayley's Steel Works, Ltd.	Sheffield
Brown John, & Co., Ltd.	Sheffield
Carver C. F., Ltd.	Nottingham
Coles H. J.	London Crane Works, Paisley, N.B. [Derby]
Craig A. F., & Co., Ltd.	Osborne St., Manchester
Craven Brothers, Ltd.	Thornberry Rd., Bradford
Croft & Perkins	Cleckheaton
Garnett P. & Co., Ltd.	
Hadfield's Steel Foundry Co., Ltd.	Hedra Works, Sheffield
Hudswell, Clarke & Co., Ltd.	Leeds
Jackson F. R., & Co., Ltd.	Salford Rolling Mills, Sheffield [Manchester]
Jessop W., & Sons, Ltd.	
Kirkstall Forge Co.	Leeds
Kramos Ltd.	Bath
Mackies Ltd.	Berks Ironwks., Reading
Platt Samuel, Ltd.	Wednesbury

Shafting and Shaft Fittings.—(See also *Plummer Blocks*.)—Continued.

Reader E., & Sons	Phonix Works, Nottingham
Richards Geo., & Co., Ltd.	Broadheath, near Manchester
Richardsons, Westgarth & Co., Ltd.	Hartlepool
Rimington Bros.	Carlisle
Selig, Sonenthal & Co.	85, Queen Victoria St., [E.C.]
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Spencer John, & Sons, Ltd.	Newburn Steel Works, Newcastle-on-Tyne
Taylor & Challen, Ltd.	Birmingham
Trier Bros.	1, St. George St., S.W.
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester [Chester]
Webb, Peet & Co.	Westgate Ironwks., Glou.
Wicksteed Charles, & Co.	Lawson St., Kettering

Sheerlegs.

Day, Summers & Co., Ltd.	Southampton
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Sheet Metal Work and Machinery.

Donovan & Co., Ltd.	Broughton Bridge Iron Works, Salford
Taylor & Challen, Ltd.	Birmingham

Shipbuilders.

Alley & Maclellan, Ltd.	Sentinel Works, Glasgow
Brown John, & Co., Ltd.	Sheffield
Caledonian Engineering & Shipbuilding Co.	Preston, Lancashire
Day, Summers & Co., Ltd.	Southampton
Ferguson Brothers	Port Glasgow, N.B.
Finch Edward, & Co., Ltd.	Chepstow
Fleming & Ferguson, Ltd.	Paisley, N.B.
Forrest & Co., Ltd.	Wyvernho, Essex; & 29, Billiter St., E.C. [ton]

Hayes Edward	Stony Stratford, Waver-
Kincaid John G., & Co.	Greenock, Scotland
Lobnitz & Co., Ltd.	Renfrew, Scotland
McKie & Baxter	Govan, Glasgow
Rennie G., & Co.	Thames St., Greenwich
Ross & Duncan	Glasgow
Schlochau F.	Elbing-Danzig, Prussia
Simons W., & Co., Ltd.	Renfrew, N.B.
Smit L., & Zoon	Kinderdijk, Holland
Thornycroft J. I., & Co., Ltd.	Chislewick, W., and South-
Yarrow & Co., Ltd.	Poplar, E. [ampton]

Shop Fittings.

Consolidated Engineering Co., Ltd.	Gotha Works, Slough
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Shovels and Spades.—(See *Picks, &c.*)**Sleepers (Railway).—(See also *Permanent Way*.)**

Bruce Alex., & Co.	53, Bothwell St., Glasgow
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Slotting & Shaping Machines.—(See *Machine Tools*.)**Sluices.**

Ransomes & Rapier, Ltd.	Ipswich
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Smelting Plant.

Fraser & Chalmers, Ltd.	3, London Wall Bldgs., E.C.
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Smiths' Fires.

Alldays & Onions Pneumatic
Engineering Co., Ltd. .. Birmingham
Thwaites Brothers, Ltd. .. Bradford

Spanners.

Wynn, Timmins & Co., Ltd. Commercial St., Birmingham

Spring.

Brown, Bailey's Steel Works, Ltd. .. Sheffield
Brown John, & Co., Ltd. .. Sheffield
Spencer John, & Sons, Ltd. Newburn Steel Works, Newcastle-on-Tyne
Sterne L., & Co., Ltd. .. Crown Ironworks, Glasgow
Tarton Thos., & Sons, Ltd. Sheaf Works, Sheffield

Stamping Machinery.

Fielding & Platt, Ltd. .. Gloucester
Smith Daniel, & Co. .. Raglan St., Wolverhampton
Taylor & Challen, Ltd. .. Birmingham

Stampings (Iron and Steel).

Armstrong, Stevens & Son Whittall St., Birmingham
Chillingworth, Rud. Works 6, Aldersgate St., E.C.
Consolidated Engineering Co., Ltd. .. Slough
Crosier, Stephens & Co. .. 2, Collingwood St., Newcastle-on-Tyne

Summerson Thomas, and Sons, Ltd. .. Darlington

Steam Cultivating Machines.

Aveling & Porter, Ltd. .. Rochester

Steam Hammers.

Baker Blower Engineering Co. .. Stanley St., Wicker, Sheffield
Carron Co. .. Carron, Stirlingshire, N.B.
Cochrane John .. Barrhead, N.B.
Crow, Harvey & Co. .. Park Grove Ironworks, Glasgow
Davis & Primrose .. Etna Ironworks, Bangor Rd., Leith, N.B.
Dempster, Moore & Co., Ltd. 49, Robertson St., Glasgow
Massey B. & S. .. Openshaw, Manchester
Nasmith, Wilson & Co., Ltd. Bridgewater F'dry, Patricroft, near Manchester
Pollock, MacNab & Highgate Shettleston, Glasgow
Ross R. G., & Son .. Glasgow
Tannett Walker, & Co., Ltd. Leeds
Thwaites Brothers, Ltd. .. Bradford

Steam Pipes.

Mechan & Sons, Ltd. .. Scotstoun Ironworks, Glasgow

Steam Separators.

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
Goubert Mfg. Co. .. New York, U.S.A.
Haigh W. B., & Co., Ltd. .. Globe Ironworks, Oldham
Holden & Brooke, Ltd. .. West Gorton, Manchester
Hopkinson J., & Co., Ltd. Huddersfield (Lancs.)
Kay James C., & Co., Ltd. Barnbrook Works, Bury
Worthington Pump Co., Ltd. .. 153, Queen Victoria St., E.C.

Steam Traps.

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
Armstrong James, & Co., Ltd. .. 118, Queen Victoria St., E.C.
Edmeston A., & Sons .. Patricroft, near Manchester
Haigh W. B., & Co., Ltd. .. Globe Ironworks, Oldham
Hobdell, Way & Co., Ltd. 63, Crutched Friars, E.C.
Holden & Brooke, Ltd. .. West Gorton, Manchester
Hopkinson J., & Co., Ltd. Huddersfield
Lancaster & Tonge, Ltd. .. Pendleton, Manchester
Marsden John, & Son .. 188, Regent Rd., Liverpool
Royles Limited .. Irlam, near Manchester
Schäffer & Budenberg, Ltd. Whitworth St., London Rd., Manchester

Steam Turbines.

Fraser & Chalmers, Ltd. .. 3, London Wall Bldgs., E.C.
Howden James, & Co. .. Scotland St., Glasgow
Parsons C. A., & Co. .. Newcastle-on-Tyne
Parsons Marine Steam Turbine Co., Ltd. .. Turbinia Works, Wallsend-on-Tyne

Steel and Iron Works (Plant for).—(See Iron and Steel Works.)**Steel Makers.**

Allen Edgar, & Co., Ltd. .. Sheffield
Andrews Thomas, & Co. St. James St., Sheffield
Armstrong Sir W. G., Whitworth & Co., Ltd. Openshaw Works, Manchester
Asknam Bros. & Wilson, Ltd. Sheffield
Beardmore Wm., & Co., Ltd. Glasgow
Beardshaw J., & Son, Ltd. Sheffield
Bessemer Henry, & Co., Ltd. Sheffield
Brown, Bayley's Steel Works, Ltd. .. Sheffield
Brown John, & Co., Ltd. Sheffield
Carbrook Steel Works .. Sheffield
Colville David, & Sons, Ltd. Motherwell, nr. Glasgow
Darlington Forge Co., Ltd. Darlington
Fairley James, & Sons .. Shadwell St., Birmingham
Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield
Gutehoffnungshütte Coal, Iron, Steel & Engineering Co. .. Oberhausen-2, Rhineland
Hadfield's Steel Foundry Co., Ltd. .. Hecla Works, Sheffield
Haniel & Lueg .. Düsseldorf, Germany
Howell & Co., Ltd. .. Brook Steel Works, Sheffield
Jackman Joseph, & Co., Ltd. Persberg Steel Works
Jesseop W., & Sons, Ltd. Attercliffe Common, Sheffield
Lanarkshire Steel Co., Ltd. (Sheffield)
Leeds Forge Co., Ltd. Motherwell, N.B.
Motherwell Iron & Steel Co., Ltd. .. Leeds
Motherwell, Scotland
Rogerson John, & Co., Ltd. Wolsingham, R.S.O., Co Durham
Scott Walter, Ltd. .. Leeds Steel Works, Leeds
Spencer John, & Sons, Ltd. Newburn Steel Works, Newcastle-on-Tyne
Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow
Stewarts & Lloyds, Ltd. 41, Oswald St., Glasgow, and Nile St., Birmingham
Turton T., & Sons, Ltd. Sheaf Works, Sheffield
Vickers, Sons & Maxim, Ltd. Sheffield

Steel Rods (Drawn).

Dennis W. F., & Co. .. 49, Queen Victoria St., E.C.

Steering Gear.

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
 Carron Co. .. Carron, Stirlingshire, N.B.
 Napier Brothers, Ltd. .. 100, Hyde Park St., Glasgow
 Piggott Thos., & Co., Ltd. .. Springhill, Birmingham
 Roger R., & Co., Ltd. .. Stockton-on-Tees
 Rogerson John, & Co., Ltd. .. Wolsingham, R.S.O., Co. Durham

Stokers (Mechanical).

Bennis Ed., & Co., Ltd. .. Bolton
 Haigh W. B., & Co., Ltd. .. Globe Iron Wks., Oldham
 Meldrum Brothers, Ltd. .. Timperley, nr. Manchester
 Proctor J. .. Burnley, Lancashire
 Ransomes & Rapier, Ltd. .. Ipswich [Leith, N.B.]
 Sinclair George .. Albion Boiler Works,
 Underfed Stoker Co., Ltd. .. Coventry House, South Place, E.C.

Stonebreakers.

Asham Bros. & Wilson, Ltd. .. Sheffield
 Baker Blower Engineering Co. .. Stanley St., Wicker.
 Co. .. Sheffield
 Baxter W. H., Ltd. .. Leeds [E.C.]
 Fraser & Chalmers, Ltd. .. 3, London Wall Buildings,
 Hadfield's Steel Foundry Co., Ltd. .. Hecla Works, Sheffield
 Jessop W., & Sons, Ltd. .. Sheffield
 Marsden H. R. .. Soho Foundry, Leeds
 Mason Bros. .. Brandon St., Leicester
 Robey & Co., Ltd. .. Lincoln
 Stamm W. (Krupp Aktiengesellschaft Grusonwerk) .. 25, College Hill, E.C.

Sugar Machinery.

Craig A. F., & Co., Ltd. .. Paisley, N.B.
 Crow, Harvey & Co. .. Park Grove Ironworks, Glasgow
 Davis & Primrose .. Bangor Rd., Leith
 Fawcett, Preston & Co., Ltd. .. Liverpool [Glasgow
 Harvey Engineering Co., Ltd. .. Sootland St. Engine Wks., Nottingham
 Manlove, Elliott & Co., Ltd. .. Nottingham
 Mirrielees Watson Co., Ltd. .. Scotland St., Glasgow
 Piggott Thos., & Co., Ltd. .. Springhill, Birmingham
 Pott, Cassels & Williamson .. Motherwell, nr. Glasgow
 Robey & Co., Ltd. .. Lincoln
 Ruston, Proctor & Co., Ltd. .. Sheaf Ironworks, Lincoln
 Smith A. & W., & Co., Ltd. .. Eglinton Engine Works, Glasgow
 Stamm W. (Krupp Aktiengesellschaft Grusonwerk) .. 25, College Hill, E.C.
 Stewart D. & Co. (1802), Ltd. .. London Rd. Ironworks, Glasgow
 Watson, Laidlaw & Co. .. Glasgow
 Williams J. Arthur .. 92, Hatton Garden, E.C.

Superheaters.

Anderton & Sons Antley Boiler Works, Accrington
 Bolton A., & Co. 49, Deansgate, Manchester
 Fraser & Chalmers, Ltd. .. 3, London Wall Buildings, E.C. [Glasgow
 Mehan & Sons, Ltd. Scotstoun Ironworks,
 Sinclair George Albion Boiler Works, Leith, N.B.

Switchboards and Accessories.

British Westinghouse Electric and Mfg. Co., Ltd. .. Norfolk St., Strand, W.G.
 Johnson & Phillips, Ltd. .. 14, Union Court, E.C.
 Lahmeyer Electrical Co., Ltd. .. 109-111, New Oxford St., W.C.
 Spagnoletti J. E., & Co. .. Goldhawk Rd., W.

Switches and Crossings.

Iscia Foundry & Eng. Co. .. Newport, Mon.
 Nicaise & Delcuve (Société Anonyme) .. La Louvière, Belgium
 Summerson Thos., & Sons, Ltd. .. Darlington
 Zadig C. A., & Co. .. 73, Queen Victoria St., E.C.

Tanks.

Ash Joseph, & Son Rea Works, Rea St. South, Birmingham
 Baldwins, Ltd. .. 5, Fenchurch St., E.C.
 Bellamy John, Ltd. .. Millwall, E.
 Braby Fredk., & Co. .. 362 to 363, Euston Rd., N.W. [field
 Clay Cross Co. .. Clay Cross, nr. Chester-Paisley, N.B.
 Craig A. F., & Co., Ltd. ..
 Deighton's Patent Flue & Tube Co., Ltd. .. Pepper Rd., Leeds
 Donovan & Co., Ltd. .. Broughton Bridge Iron Works, Salford
 Haley E. & W. H. .. Bradford
 Hanna, Donald & Wilson .. Paisley, N.B.
 Iscia Foundry & Engineering Co. .. Newport, Mon.
 Keep F. A., Juxon & Co. .. Barn St., Birmingham
 Lysaght John, Ltd. .. Bristol [Glasgow
 Mehan & Sons, Ltd. .. Scotstoun Iron Works,
 Motherwell Bridge Co., Ltd. .. Motherwell, N.B. [field
 Newton, Chambers & Co., Ltd. .. Thorncliffe Ironworks, near Sheffield
 Piggott Thos., & Co., Ltd. .. Springhill, Birmingham
 Ransomes & Rapier, Ltd. .. Ipswich
 Sheepbridge Coal & Iron Co., Ltd. .. Chesterfield
 Summerson Thomas, and Sons, Ltd. .. Darlington
 Tees Side Bridge & Engineering Works, Ltd. .. Middlesbrough

Tanners and Curriers.

Tallis John, & Son, Ltd. .. St. Ann's Leather Works,
 Webb & Son Stowmarket [Glasgow

Tea-Dressing Machinery.

Bever, Dorling & Co., Ltd. .. Bowling Ironworks, Bradford
 Marshall, Sons & Co., Ltd. .. Gainsborough [ford
 Ransomes, Sims & Jefferies, Ltd. Ipswich

Telegraph Instruments.

British Insulated & Helsby Cables, Ltd. .. Prescott, Lancashire
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. .. Silvertown, Essex
 Johnson & Phillips, Ltd. .. 14, Union Court, E.C.
 Spagnoletti J. E., & Co. .. Goldhawk Rd., W.

Telegraph Wire and Cables.

British Insulated & Helsby
Cables, Ltd. Prescott, Lancashire
India Rubber, Gutta Percha
& Telegraph Works Co.,
Ltd. Silvertown, Essex
Johnson & Phillips, Ltd. . . 14, Union Court, E.C.

Telegraphs (Engine and Steering).

Chadburn's (Ship) Tele-
graph Co., Ltd. 11, Waterloo Rd., L'pool.

Telephones.

British Insulated & Helsby
Cables, Ltd. Prescott, Lancashire

Testing Machines.

Bailey W. H., & Co., Ltd. Salford, Manchester
Denison Saml., & Sons, Ltd. Far Hunslet, Leeds, S.
Greenwood & Batley, Ltd. Armley Rd., Leeds
Leeds Engineering and } Providence Works, Cross
Hydraulic Co., Ltd. } Stamford St., Leeds
Salmoiraghi A., & C. } Milano, Italy
Tangyes Limited Birmingham

Timber Merchants.

Bruce Alex., & Co. 53, Bothwell St., Glasgow

Time-Checking Machines.

Bailey W. H., & Co., Ltd. Salford, Manchester
Howard Bros. 40, Paradise St., Liverpool

Time Registers.

Howard Bros. 40, Paradise St., Liverpool

Tools (Hand and Small).

Armstrong, Stevens & Son Whittall St., Birmingham
Buck & Hickman, Ltd. . . 2 & 4, Whitechapel Rd.,
E.
Chatwin Thos. Gt. Tindal St., Birming-
ham

Churchill Chas., & Co., Ltd. 9 to 15, Leonard St., E.C.
Consolidated Pneumatic }
Tool Co., Ltd. } Palace Ch'hrs, 9, Bridge
Daniell S. A., Ltd. . . . } St., Westminster, S.W.
Lion Works, Birmingham
Dempster, Moore & Co., Ltd. 49, Robertson St., Glas-
gow

Guest, Keen & Nettlefolds, Birmingham
Ltd. Ashton-under-Lyne
Heap Joshua, & Co., Ltd. Bath
Kramos Ltd. 85, Queen Victoria St.,
[E.C.]
Selig, Sonnenthal & Co. . . Saltley Mill, Birmingham
Smith Thomas, & Sons, of Bartholomew St., Bir-
mingham
Saltley, Ltd. United States Metallic
Taylor Charles Packing Co., Ltd.
Wells A. C., & Co. Soho Works, Bradford
102, Midland Rd., St.
Pancras, N.W.

Widdowson J. H. Ordal Lane, Manchester
Wynn, Timmins & Co., Ltd. Commercial St., Birming-
ham

Tools (Pneumatic).—(See Pneumatic Tools.)**Torpedo Boats.**

Hanna, Donald & Wilson . . Paisley
Schichau F. Elbing-Danzig, Prussia
Smit L., & Zoon Kinderdijk, Holland
Thornycroft J. L., & Co., Ltd. Obiswick, W., and South-
Yarrow & Co., Ltd. Poplar, E. [ampten]

Terpedoes.

Greenwood & Batley, Ltd. Armley Rd., Leeds

Tramways and Tramway Plant.

Askham Bros. & Wilson, Ltd. Sheffield [E.C.]
Birch John, & Co., Ltd. . . 3, London Wall Buildings,
Rolling & Lowe 2, Laurence Pountney
[Hill, E.C.]
British Westinghouse Elec- Norfolk St., Strand, W.C.
tric and Mfg. Co., Ltd. . . Falcon Wks., Loughboro'
Brush Elect. Eng. Co., Ltd. 20, King William St.,
Continuous Rail Joint Co. of Great Britain, Ltd. } E.C.
Dick, Kerr & Co., Ltd. . . Abchurch Yard, Cannon
Hadfield's Steel Foundry [St., E.C.]
Co., Ltd. Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd. Newcastle-on-Tyne
Hornsby, R., & Sons, Ltd. Grantham
Hurst, Nelson & Co., Ltd. Motherwell, N.B.
Isca Foundry and Engineer- Newport, Mon.
ing Co. Sheffield
Jessop Wm., & Sons, Ltd. 1, Broad St. Place, E.C.
Kerr, Stuart & Co., Ltd. . Crown Tube Wks., Wed-
Russell James, & Sons, Ltd. nesbury

Tube-Making Machinery.

Fielding & Platt, Ltd. . . Gloucester
Platt Samuel, Ltd. Wednesbury

Tube Wells.

Balcke, Tellerling & Cie. Akt. Ges. Benrath, near Dusseldorf
Isler O., & Co. Bear Lane, S.E.
Le Grand & Sutcliff . . . 125, Bunhill Row, E.C.

Tubes (Brass and Copper).—(See also Pipes.)

Birmingham Battery & Metal Co., Ltd. Birmingham
Broughton Copper Co., Ltd. Manchester
Elmore's Metall A.G. . . . Schladern, Sieg, Germany
Grice, Grice & Son Sheepcote St., Birming-
ham
Kynoch Limited Witton, Birmingham
Boyles Limited Irlam, near Manchester

Tubes (Iron and Steel).

Aird Jos. Tipton, Staffordshire
Balcke, Tellerling & Cie. Akt. Ges. Benrath, near Dusseldorf
British Mannesmann Tube Co., Ltd. Landore, R.S.O., South
Wales
Brown John, & Co., Ltd. . . Sheffield
Galloways Limited Manchester
Howell & Co., Ltd. Sheffield
Lewis E., & Sons Wolverhampton
Marshall J., & Sons Glasgow
Piggott Thos., & Co., Ltd. Springhill, Birmingham

Tubes (Iron and Steel).—Continued.

Russell James, & Sons, Ltd.	Crown Tube Wks., Wednesbury
Russell John, & Co., Ltd.	Alma Tube Wks., Walsall
Stewarts & Lloyds, Ltd.	41, Oswald St., Glasgow, and Nile St., B'ham
Tubes, Ltd.	Birmingham
Universal Tube Co., Ltd.	Chesterfield
Weldless Steel Tube Co., Ltd.	Icknield Port Rd., Birmingham
Wilsons & Union Tube Co., Ltd.	5, Wellington St., Glasgow

Tug Boats.

Day, Summers & Co., Ltd.	Southampton
Dee Shipbuilding Co., Ltd.	Queen's Ferry, nr. Chester
Ferguson Brothers	Port Glasgow, N.B.
Fleming & Ferguson, Ltd.	Paisley, N.B.
Hayes Edward	Stony Stratford, Wolverton
McKie & Baxter	Copland Works, Govan, Glasgow
Rennie G., & Co.	Thames St., Greenwich
Ross & Duncan	Glasgow
Salter Bros.	Oxford
Simpson, Strickland & Co., Ltd.	Dartmouth, S. Devon
Smit L., & Zoon	Kinderdijk, Holland

Turbines.—(See also Steam Turbines.)

Allen W. H., Son, & Co., Ltd.	Queen's Engineering Works, Bedford
British Westinghouse Electric and Mfg. Co., Ltd.	Norfolk St., Strand, W.C.
Gordon James, & Co.	52, Lime St., E.C.
Günther W., & Sons	Central Works, Oldham
Gwynnes Ltd.	81, Cannon St., E.C.
Hanna, Donald, & Wilson	Paisley, N.B.
Nell Frederic	46, Queen Victoria St., E.C.
Pitman, Percy	Bosbury, Ledbury, Hereford
Sohram, Harker & Co.	Cannon St. House, E.C.
Stothert & Pitt, Ltd.	Bath
Warner E., & Co.	97, Queen Victoria St., E.C.

Turnstiles.

Isher C., & Co.	Bear Lane, S.E.
Le Grand & Sutcliffe	125, Bunhill Row, E.C.

Turntables.

Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Owans, Sheldon & Co., Ltd.	Carlisle
Ioca Foundry & Engineering Co.	Newport, Mon.
Kerr, Stuart & Co., Ltd.	1, Broad St. Place, E.C.
Patent Shaft & Axletree Co., Ltd.	Wednesbury
Ransomes & Rapier, Ltd.	Ipswich
Summers Thomas, and Sons, Ltd.	Darlington
Zadig C. A., & Co.	73, Queen Victoria St., E.C.

Tyres (Railway).

Bessemer Henry, & Co., Ltd.	Sheffield
Brown, Bayley's Steel Works, Ltd.	Sheffield

Tyres (Railway).—Continued.

Brown John, & Co., Ltd.	Sheffield
Cammell Laird & Co. Ltd.	Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Vickers, Sons & Maxim, Ltd.	Sheffield

Valuers (Engineers).

Fuller, Horsey, Sons & Cassell	11, Billiter Square, E.C.
Kirk W., Price & Co.	46, Watling St., E.C.; and Albert Sq., Manchester

Valves (Gas, Steam, Water, &c.).

Abbot John, & Co., Ltd.	Gateshead-on-Tyne
Alley & MacLellan, Ltd.	Sentinel Works, Glasgow
Asbestos Co., Ltd. (Bell's)	594, Southwark St., S.E.
Auld David, & Sons	Whitevale Foundry, Glasgow
Bailey W. H., & Co., Ltd.	Salford, Manchester
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Blair, Campbell & McLean, Ltd.	Woodville St., Govan, Glasgow
Bryan Donkin Company, Ltd.	Chesterfield
Crosby Steam Gage & Valve Co.	147, Queen Victoria St., E.C.
Daw A. & Z.	11, Queen Victoria St., (E.C.)
Dewhurst's Engineering Co., Ltd.	Sheffield
Fielding & Platt, Ltd.	Gloucester
Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Hanna, Donald & Wilson	Paisley, N.B.
Haste Pump Co., Ltd.	Crown Buildings, Crown Ct., Old Broad St., E.C.
Holden & Brooke, Ltd.	West Gorton Manchester
Holmes W. C., & Co.	Huddersfield
Hopkinson J., & Co., Ltd.	Huddersfield
Hulburd Engineering Co.	160, Leadenhall St., E.C.
Hunter & English	Bow, E. [U.S.A.]
Jenkins Bros.	71, John St., New York
Metallic Valve Co.	Colonial House, Water St., Liverpool
Owens S., & Co.	Whitefriars St., E.C.
Piggott Thos., & Co., Ltd.	Birmingham
Rhodes B., & Son	Bow Brass Works, E.
Rice & Co. (Leeds), Ltd.	Elland Road, Leeds
Royleys Limited	Irlam, near Manchester
Schäffer & Budenberg, Ltd.	Whitworth St., London Rd., Manchester

Scoth and Irish Oxygen Co., Ltd.	Rosehill Works, Glasgow
Scott Ernest, & Mountain, Ltd.	Close Works, Newcastle-on-Tyne
Scott Geo., & Son (London), Ltd.	44, Christian St., E.
Storey I., & Sons, Ltd.	Manchester [E.C.]
Warner R., & Co.	97, Queen Victoria St.,
Woodite Works	Mitcham Common, Surrey
Worthington Pump Co., Ltd.	153, Queen Victoria St., E.C.

Valves (Safety).

Ashton Valve Co.	63, Crutched Friars, E.C.
Bailey W. H., & Co., Ltd.	Salford, Manchester
Crosby Steam Gage & Valve Co.	147, Queen Victoria St., E.C.
Hopkinson J., & Co., Ltd.	Huddersfield

Valves (Safety).—Continued.

Klinger Richard, & Co. . .	66, Fenchurch St., E.C.
Boyles Limited . . .	Irlam, near Manchester
Schäffer & Budenberg, Ltd. .	Whitworth St., London
	Ed., Manchester
Scott Ernest, & Mountain, Ltd. . .	Cloose Works, Newcastle-on-Tyne
Turnbull Alex., & Co., Ltd. .	Bishopbriggs, Glasgow

Ventilators.

Abbot John, & Co., Ltd. . .	Gateshead-on-Tyne
Allen W. H., Son & Co. Ltd. . .	Queen's Engineering Works, Bedford
Boyle R., & Son . . .	64, Holborn Viaduct, E.C.
Buffalo Forge Co. . .	39, Victoria St., S.W.
Heenan & Froude, Ltd. . .	Manchester
Jenkins W. J., & Co., Ltd. .	Retford
Keith James, & Blackman Co., Ltd. . .	Farrington Avenue, E.C.
Laycock W. S., Ltd. . .	Millhouses, Sheffield
Matthews & Yates, Ltd. . .	Swinton, Manchester
Musgrave & Co., Ltd. . .	St. Ann's Ironworks, Belfast
Royce Ltd. . .	Hulme, Manchester
Sturtevant Engineering Co., Ltd. . .	147, Queen Victoria St., E.C.

Vices.

Ashton Thomas A., Ltd. . .	Sheffield
Taylor Charles . . .	Bartholomew St., B'ham

Voltmeters.

Nalder Bros. & Thompson, Ltd. . .	34, Queen St., E.C.
Weston Electrical Instrument Co. . .	Audrey House, Ely Place, Holborn, E.C.

Vulcanite and Vulcanised Fibre.

Reddaway F., & Co., Ltd. . .	Pendleton, Manchester
Winter F. . .	8, Redcross St., E.C.

Wagon (Railway) Builders.

Bagnall W. G., Ltd. . .	Castle Engine Works, Stafford
Baume & Marpent . . .	Moyaux, Haine-St.-Pierre, Belgium
Brush Elect. Eng. Co., Ltd. .	Falcon Wks., Loughboro'
Compagnie Centrale de Construction, Ltd. . .	Dashwood House, New Broad St., E.C.
Forges, Usines & Fonderies de et a Haine-St.-Pierre . .	Haine - St. - Pierre, Belgium
Glasgow Railway Engineering Co., Ltd. . .	Govan, Glasgow
Hurst, Nelson, & Co., Ltd. .	Motherwell, N.B.
Kerr, Stuart & Co., Ltd. . .	20, Bucklersbury, E.C.
Leeds Forge Co., Ltd. . .	Leeds
MacLellan P. & W., Ltd. . .	Clutha Works, Glasgow
Metropolitan Amalgamated Railway Carriage & Wagon Co., Ltd. . .	Saltley, Birmingham
Midland Railway Carriage and Wagon Co., Ltd. . .	Abbey Wks., Shrewsbury
Nicaise & Delcuve (Société Anonyme) . . .	La Louvière, Belgium
Benshaw W. R., & Co., Ltd., Trustees of . . .	Stoke-on-Trent

Wagons (Tip).

Bagnall W. G., Ltd. . .	Castle Engine Wks. St'f'd
Dick, Kerr & Co., Ltd. . .	Abchurch Yard, Cannon St., E.C.
Hadfield's Steel Foundry Co., Ltd. . .	Hecla Works, Sheffield
Kerr, Stuart & Co., Ltd. . .	1, Broad St. Place, E.C.
Zadig C. A., & Co. . .	73, Queen Victoria St., E.C.

Watches.

Smith S., & Sons, Ltd. . .	9, Strand, W.C.
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Water Cooling Plant.

Balcke & Co. . .	27, Clement's Lane, E.C.
Custodis Alphonso, Co. . .	119, Victoria St., S.W.
Klein Engineering Co., Ltd. .	94, Market St., Manchester

Water Meters.

Henfield & Kennedy, Ltd. . .	Kilmarnock, N.B. [E.C.]
Worthington Pump Co., Ltd. .	153, Queen Victoria St.,

Water-Purifying Apparatus.

Baker's Patent Appliances Co., Ltd. . .	Melrose St. Wks., Scarborough
Boby William . . .	Salisbury House, London
Kennicott Water Softener Co. . .	[Wall, E.C.]
Lassen & Hjort . . .	29, Great St. Helen's, E.C.
Mather & Platt, Ltd. . .	52, Queen Victoria St., E.C.
Pulsometer Engineering Co., Ltd. . .	Nine Elms Ironworks, Reading
Rose, Downs & Thompson, Ltd. . .	Old Foundry, Hull
Royles Limited . . .	Irlam, near Manchester
Wright Howard T., Bros., Ltd. . .	72, Victoria St., S.W.

Water Wheels.

Sodley Brothers & Co. . .	Exeter [E.C.]
Fraser & Chalmers, Ltd. . .	3, London Wall Buildings.
Pitman, Percy . . .	Bosbury, Ledbury, Herefordshire
Stothert & Pitt, Ltd. . .	Bath
Turner E. R. & F., Ltd. . .	(132) Ipswich
Warner R., & Co. . .	97, Queen Victoria St., E.C.

Weighing Machines.

Bennis Ed., & Co., Ltd. . .	Bolton
Denison Saml., & Son, Ltd. .	Far Hunslet, Leeds, S.
East Ferry Road Engineering Works Co., Ltd. . .	Millwall, E.
Salter Geo., & Co. . .	West Bromwich
Smith A. & W., & Co., Ltd. .	Eglington Engine Works, Glasgow

Welding.

Thermit, Ltd. . .	27, Martin's Lane, Cannon St., E.C.
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Well Engineers.

Isler C., & Co. . .	Bear Lane, S.E.
Le Grand & Sutcliffe . . .	125, Bunhill Row, E.C.

Wheelbarrows (Iron).

Baylies, Jones & Baylies, Ltd. .	Wolverhampton
Hill & Smith . . .	Brierley Hill Iron Works, near Dudley, Staffs.

Wheel-Cutting Machinery.

Hetherington John, & Sons,
Ltd. Manchester
Hulse & Co., Ltd. Salford, Manchester

Wheels (Geared).

Ahlers Ad. Whitley Bay, Newcastle-on-Tyne
Angus Geo., & Co., Ltd. St. John's Works, Newcastle-on-Tyne
Hodley Brothers & Co. Exeter
Brown D., & Sons, Ltd. Huddersfield
Craig A. F., & Co., Ltd. Paisley, N.B.
Hadfield's Steel Foundry Co., Ltd. Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd. Newcastle-on-Tyne
Jackson P. R., & Co., Ltd. Manchester
Jesseop W., & Sons, Ltd. Sheffield
Jones George, Ltd. Lionel St., Birmingham
Kay James C., & Co., Ltd. Barnbrook Works, Bury, [Lancs.]
Manlove, Alliott & Co., Ltd. Nottingham
Hogerson John, & Co., Ltd. Wolsingham, R.S.O., Co. Durham [Surrey]
Smith John, & Co. Grove Works, Carshalton
Spencer John, & Sons, Ltd. Newburn Steel Works, Newcastle-on-Tyne
Sunderland, John Fleece Mills, Keighley
Unbreakable Pulley & Mill Gearing Co., Ltd. 48, West Gorton, Manchester
Urquhart, Lindsay & Co., Ltd. Blackness Foundry, Oldham [Dundee]
Whittaker Wm., & Sons Oldham

Wheels (Railway).

Baume & Merpent Moyaux, Haine-St.-Pierre, Belgium
Glasgow Railway Engineering Co., Ltd. Govan, Glasgow
Hadfield's Steel Foundry Co., Ltd. Hecla Works, Sheffield
Hurst, Nelson, & Co., Ltd. Motherwell, N.B.
Jessop W., & Sons, Ltd. Sheffield
Metropolitan Amalgamated Railway Carriage & Wagon Co. Saltley, Birmingham
Midland Railway Carriage & Wagon Co., Ltd. Abbey Wks., Shrewsbury
Nicaise & Delcuve (Société Anonyme) La Louvière, Belgium
Patent Shaft & Axletree Co., Ltd. Wednesbury

Wheels (Rawhide).

Angus Geo., & Co., Ltd. St. John's Works, Newcastle-on-Tyne
Brown D., & Sons, Ltd. Huddersfield [Surrey]
Smith John, & Co. Grove Works, Carshalton

Wheels (Sprocket).

Bayshawe & Co. 3, Tower Royal, E.C.

Winches (Steam).—(See Cranes.)**Windlasses.**

Clarke, Chapman & Co., Ltd. Gateshead-upon-Tyne
Hyde Windlass Co. Bath, Maine, U.S.A.
Mirrlees Watson Co., Ltd. Scotland St., Glasgow
Wilson John H., & Co., Ltd. Sandhills, Liverpool

Windmills.

Warner R., & Co. 97, Queen Victoria St. E.C.

Wire and Wire Rope Makers.

Birmingham Battery & Metal Co., Ltd. Birmingham
British Insulated & Helsby Cables, Ltd. Prescott, Lancashire
Brown W. B., & Co. (Bank-hall), Ltd. Globe Works, Bankhall, Liverpool
Craddock Geo., & Co. Wakefield
Dennis W. F., & Co. 49, Queen Victoria St., E.C.
Elliot George, & Co., Ltd. 16, Gt. George St., S.W.
Fowler J., & Co. (Leeds), Ltd. Leeds
Johnson & Phillips, Ltd. 14, Union Court, E.C.
Wright J. & E., Ltd. Universe Works, Birmingham

Woodite for Steam, Electrical and Hydraulic Packings.

Woodite Works Mitcham Common, Surrey

Wood-Working Machinery.

Becker R., & Co. 53, City Rd., E.C.
Dempster, Moore & Co., Ltd. 49, Robertson St., Glasgow
Greenwood & Batley, Ltd. Armley Rd., Leeds
Lees T. & R. Hollinwood, near Manchester
Marshall, Sons & Co., Ltd. Gainsborough
Pollock, Macnab & Highgate Ransome A., & Co., Ltd. Shettleston, Glasgow
Richards Geo., & Co., Ltd. Newark-on-Trent
Robey & Co., Ltd. Broadheath, near Manchester
Robinson Thos., & Son, Ltd. Lincoln
Ruston, Proctor & Co., Ltd. Rochdale
Ruston, Proctor & Co., Ltd. Lincoln

Worm Gearing.

Brown D., & Sons Huddersfield
Wallwork Henry, & Co., Ltd. Manchester

Yachts.—(See Launches and Yachts.)

LIST OF ADDRESSES, Telegraphic Addresses, Codes, & Telephone Numbers

OF

FIRMS NOW ADVERTISING in "ENGINEERING."

(NOTE.—With the exception of those otherwise marked, all Telephone Numbers are those of the National Telephone Company.)

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Abbet John, & Co., Ltd., Park Works, Gateshead-on-Tyne		{ 155&156 P.O. 440 & 445 }	Abbet, Gateshead
1 Abbot & Co. (Newark), Ltd., Newark-on-Trent	.. .. .	—	Abbot, Newark
1 Ahlers Ad., Whitley Bay, Newcastle-on-Tyne	.. {	{ P.O. Whitley Bay 6 Whitley Bay 052 }	Ahlers, Whitley bay
Aird Jos., 46, Queen Victoria St., E.C.	.. .. .	Bank 1772	Vigilantia, London
Aird Jos., Wrot. Iron and Steel Tube Works, Great Bridge, Staffs.	.. .. .	9024	Vigilantia, Tipton
1 4 16 Ajax Metal Co., 26, Victoria St., S.W.	.. .. .	Gerrard 4271	Lustroso, London
Alexander E. P., & Son, 306, High Holborn, W.C.	.. .. .	—	Epa, London
1 2 Alldays & Onions Pneumatic Engineering Co., Ltd., Birmingham	.. .. .	328 & 3990	Alldays, Birmingham
Allen Edgar, & Co., Ltd., Imperial Steel Works, Sheffield	.. .. .	917	Allen, Sheffield
1 2 Allen W. H., Son, & Co., Ltd., Queen's Engineering Wks., Bedford	.. .. .	1	Pump, Bedford
1 2 Allen W. H., Son, & Co., Ltd., 27, Old Queen St., S.W.	.. .. .	4938	Pump, London
1 2 4 American Locomotive Co., 111, Broadway, New York City, } 10 16 } U.S.A.	.. .. .	—	{ Locomotive, New York, U.S.A.
2 10 American Locomotive Co., 26, Victoria St., S.W.	.. .. .	Victoria 431	Sivad, London
1 Anderston Foundry Co., Ltd., Glasgow	.. .. .	Argyle 1388	Afco, Glasgow
Anderton & Sons, Antley Boiler Works, Accrington	.. .. .	135	Boiler, Church
1 Andrew J. E. H., & Co., Ltd., Reddish, near Stockport	.. .. .	Stockport 27	Andrew, Roddish
Andrews Thomas, & Co., St. James St., Sheffield	.. .. .	3718	Andrews, St. James St., Sheffield
Angus Geo., & Co., Ltd., St. John's Works, Newcastle-on-Tyne	.. .. .	—	Angus, Newcastle-on-Tyne
2 3 Archdale Jas., & Co., Ltd., Ledsam St., Birmingham	.. .. .	3558	Archdale, Birmingham
4 17 Armstrong James, & Co., Ltd., 116, Queen Victoria St., E.C.	.. .. .	P.O. Central 1476	Tolamaco, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 10 Cosmopolitan. 16 Western Union. 17 Anglo-American.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Armstrong Sir W. G., Whitworth & Co., Ltd., Openshaw Works, Manchester		1795 & 1845	Whitworth, Openshaw
Armstrong, Stevens & Son, Whittall St., Birmingham		—	Armstrongs, Birmingham
Arrol Sir William, & Co., Ltd., Bridgeton, Glasgow		2519	Tay, Glasgow
Arrol's Bridge & Roof Co., Ltd., Germiston Works, Glasgow		4768	Germiston, Glasgow
Asbestos Co., Ltd. (Bell's), 594, Southwark St., S.E.		Hop 512 & 523	Belfry, London
Asbestos Co., Ltd. (The United), Dock House, Billiter St., E.C.		[Avenue 2872	Asbestos, London
Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham		474	Tanks, Birmingham
Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees		{ P.O. 12 17 }	Gasholder, Stockton-on-Tees
Ashton Thomas A., Ltd., Sheffield		12, 1810, 1561	Ashton, Sheffield
Ashton Valve Co., 63, Crutched Friars, E.C.		—	Sprocket, London
Ashworth Elijah, Collyhurst, Manchester		738	Steel Card, Manchester
Askham Bros. & Wilson, Ltd., Sheffield		213	Askham, Sheffield
Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C.		P.O. Central 2210	Aloyau, London
Auld David, & Sons, Whitevale Foundry, Glasgow		2612	Reducing, Glasgow
Aveling & Porter, Ltd., Rochester		512	Aveling, Rochester
Avens Frederick, & Co., Stroud, Glos.		—	Fredk. Avens, Stroud
Avonside Engine Co., Bristol		Fishponds 30	Walker, Bristol
Babcock & Wilcox, Ltd., Oriel House, Farrington St., E.C.		Holborn 1741 & 1742	Babcock, London
Bagnall W. G., Ltd., Castle Engine Works, Stafford		15	Bagnall, Stafford
Bagshaw J., & Sons, Ltd., Batley, Yorkshire		1046	Bagshaw, Batley
Bagshaw & Co., 3, Tower Royal, Cannon St., E.C.		—	Outburst, London
Balley W. H., & Co., Ltd., Albion Works, Salford, Manchester		991	Beacon, Salford
Baker Blower Engineering Co., Stanley St., Wicker, Sheffield		1027	Elivas, Sheffield
Baker's Patent Appliances Co., Ltd., Melrose St. Works, Scarborough		0194	Patent, Scarborough
Balcke & Co., 27, Clement's Lane, E.C.		Central 10440	Gegenstrom, London
Balcke, Telling & Cie. Akt. Ges., Benrath, near Dusseldorf		—	
Baldwins Ltd., 5, Fenchurch St., E.C.		Avenue 188	Promptitude, London
Baldwins Ltd., Orchard St., Blackwall		Eastern 5003	Silverine, London
Barclay Andrew, Sons, & Co., Ltd., Caledonia Wks., Kilmarnock		10	Barclayson, Kilmarnock
Barns W., & Son, Globe Works, Queensland Rd., Holloway, N.		—	Perforation, London
Bateman's Machine Tool Co., Ltd., Hunslet, Leeds		Central 2160	Planers, Leeds
Baume & Merpent, Moyaux, Haine-St.-Pierre, Belgium		—	Moyaux, Haine-St.-Pierre, Belgium
Baxter W. H., Ltd., Leeds		663	Knapping, Leeds
Bayliss, Jones & Bayliss, Ltd., Victoria Wks., Wolverhampton		—	Bayliss, Wolverhampton
Beardmore William, & Co., Ltd., Parkhead Forge Rolling Mills and Steel Works, Glasgow		1356	Beardmore, Glasgow
Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield		77	Beardshaw, Sheffield
Beardshaw J., & Son, Ltd., 181, Bridgehouse, Queen Victoria St., E.C.		—	Democracy, London

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6 Private. 8 International. 16 Western Union. 20 Bedford McNeill's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Bechem & Keetman , Duisburg, Germany		Duisburg 29	Maschinenban, Duisburg, Germany
1 2	Becker R., & Co. , 53, City Rd., E.C.	Central 6050	Cleavage, London
	Bellamy John, Ltd. , Byng St., Millwall, E.	Eastern 157	Bellamy, London
3 27	Belliss & Morcom Ltd. , Ledsam St. Works, Birmingham	4480 & 4481	Belliss, Birmingham
	Bennis Ed., & Co., Ltd. , Little Hulton, Bolton	Farnworth 13	Bennis, Little Hulton, Bolton
	Benrath Engineering Co. , 36, Victoria St., S.W.	—	Benrath, London
1 3	Berry F., & Son , Sowerby Bridge, Yorkshire	1275	Berrys, Sowerby Bridge
1 2 3	Berry Henry, & Co., Ltd. , Croydon Works, Leeds	557	Rivetter, Leeds
	Bertram John, & Sons Co., Ltd. , 23 & 25, Victoria St., S.W. (Westminster)	486	Niliacus, London
1 2	Bertrams Ltd. , St. Katherine's Works, Sciennes, Edinburgh	645	Bertram, Edinburgh
1	Bessemer Henry, & Co., Ltd. , Sheffield	91	Bessemer, Sheffield
1 3	Bever, Derling & Co., Ltd. , Bowling Ironworks, Bradford	1644	Foundry, Bradford
1 2	Beyer, Peacock & Co., Ltd. , Gorton Foundry, Manchester	255	Loco, Gorton
	Billington & Newton , Longport, Stoke-on-Trent	Burslem 304	Bronze, Longport
1 2 3 6	Birch John, & Co., Ltd. , 3, London Wall Buildings, E.C.	Bank 1601	Endeavour, London
1	Birmingham Battery & Metal Co., Ltd. , Birmingham	51	Battery, Selly Oak
	Blackburn, Starling & Co., Ltd. , Gresham Wks., Nottingham	238	Blackburn, Nottingham
	Blackstone & Co., Ltd. , Rutland Works, Stamford	1	Blackstones, Stamford
1	Blair, Campbell & McLean, Ltd. , Woodville St., Govan, Glasgow	18 { Corp. 128 }	Blazon, Glasgow
	Blake John, Ltd. , Oxford St. Works, Accrington, Lancashire	—	Rams, Accrington
1 4 22	Bleichert Adolf, & Co. , Leipzig-Gohlis 54	1714	Bleichert, Leipzig
	Boby Robert, Ltd. , St. Andrew's Works, Bury St. Edmunds	—	Screens, Bury St. Edmunds
	Boby William , Salisbury House, London Wall, E.C. { London Wall 1561 Central 796 }	—	Buocula, London
	Bodley Bros. & Co. , Old Quay Foundry, Exeter	189	Bodley, Exeter
1 2 3 4	Belling & Lowe , 2, Laurence Pountney Hill, E.C.	Bank 1530	Bird, London
	Belton A., & Co. , 40, Deansgate, Manchester	—	—
1 3	Beeth Joseph, & Bros. , Union Ironworks, Rodley, Leeds	2020	Cranes, Rodley
1 4 22	Borsig A. , Berlin-Tegel { Tegel 57, 75, 76, 77 & 125 Berlin Amt. III. 1084, 3248 & 8234 }	—	Borsig, Tegel
1	Boyle R., & Son , 64, Holborn Viaduct, E.C.	—	Hypostile, London
1	Boyle R., & Son , 110, Bothwell St., Glasgow	—	Hypostile, Glasgow
	Braby Fred, & Co. , Fitzroy Wks., 352 to 362, Euston Rd., N.W. King's Cross 783	—	Courteous, London
1	Bradbury & Co., Ltd. , Wellington Works, Oldham	242	Rotary, Oldham
1 2 3	Bradley & Craven, Ltd. , Westgate Common Foundry, Wakefield	3	Craven, Wakefield
1 5 20	Bradley Pulverizer Co. , 37, Walbrook, E.C.	Bank 5961	Equestrian, London
	Branscomb E., & Son , Aston, Birmingham	—	—
1	Brasil, Holborow & Straker, Ltd. , Vulcan Ironworks, Bristol	846	Hydraulic, Bristol
	Bremner J. A., & Co. , Albert St., Manchester	—	Roman, Manchester
	Breuer Schumacher & Co., Ltd. , 21, Lime St., E.C. Avenue 2565	—	Hierro, London
	Bridge D., & Co. , Engineering Works, Castleton, near Manchester	Rochdale 268 {	Coupling, Castleton, Manchester
2	Brightside Foundry & Engineering Co., Ltd. , 28, Victoria St., Westminster, S.W.	—	Brickpress, London
1 2 3	Britannia Engineering Co., Ltd. , Colchester	47	Britannia, Colchester

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's 5 Moreing's.
6 Private. 20 McNeill's. 22 Staudt & Hundius. 27 Marconi Wireless.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
British Aluminium Co., Ltd., 9, Victoria St., S.W.		Westminster 3286	Cryolite, London
British Insulated & Helsby Cables, Ltd., Prescott, Lancs.		8	Insulator, Prescott
British Mannesmann Tube Co., Ltd., Landore, R.S.O., South Wales		—	—
1 2 4	British Thomson-Houston Co., Ltd., Rugby	54	Asteroidal, Rugby
British Westinghouse Electric & Mfg. Co., Ltd., Norfolk St., Strand, W.C.		Gerrard 3261, 3262, 3263, 3264 & 3265	Multiphase, London
1 2 4	Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield	102	Broadbent, Huddersfield
1	Brotherhood Peter, Belvedere Rd., Lambeth, S.E.	—	Brotherhood, London
Broughton Copper Co., Ltd., 123, Cannon St., E.C.		—	Copper Co., London
Broughton Copper Co., Ltd., Manchester		636	Copper Co., Manchester
Browett, Lindley & Co. (1899), Ltd., Patricroft, Manchester		Ecoles, Manchester District 10	Sandon, Patricroft
Brown, Bayley's Steel Works, Ltd., Sheffield		82	Bayley, Sheffield
Brown D., & Sons, Ltd., Park Works, Lockwood, Huddersfield		80	Gearing, Huddersfield
Brown D., & Sons, Ltd., East Parade, Huddersfield		339	Patterns, Huddersfield
1 2 3 4 15	Brown Hoisting Machinery Co., Cleveland, Ohio, U.S.A.	—	Brownhoist, Cleveland, U.S.A.
1 2 3 4 15	Brown Hoisting Machinery Co., 39, Victoria St., S.W.	—	Shovelling, London
Brown John, & Co., Ltd., Sheffield		—	Atlas, Sheffield
1 2 5	Brown W. B., & Co. (Bankhall), Ltd., Bankhall, Liverpool	Bootle 213	Vires, Liverpool
11 26	Brue Alex., & Co., 53, Bothwell St., Glasgow	Argyle 645	Sleepers, Glasgow
1 2	Brush Electrical Engineering Co., Ltd., Loughborough	—	Falcon, Loughborough
2 3	Bryan Donkin Company, The, Ltd., Chesterfield	84	Donkin, Chesterfield
1 4	Buck & Hickman, Ltd., 2 & 4, Whitechapel Rd., E.	{ Central 7981 Four Lines }	Roebuck, London
2	Buckton Joshua, & Co., Ltd., Leeds	724	Bucktons, Leeds
Buffalo Forge Co., 39, Victoria St., S.W.		—	Buffaloes, London
1 2 5 8 14 19	Bullivant & Co., Ltd., 72, Mark Lane, E.C.	Avenue 2110	Bullivants, London
Bull's Metal & Melloid Co., Ltd., Yoker, near Glasgow		—	Melloid, Yoker
Bumsted & Chandler, Cannock Chase Engine Works, Hednesford, Staffs.		—	Bags, Hednesford
1 2	Burnet Lindsay, & Co., Moor Pk. Boiler Wks., Govan, Glasgow	1513	Burnet, Glasgow
9	Burnham, Williams & Co., 110, Cannon St., E.C.	{ Bank 5636 Central 8882 }	Sanders, London
1 2 9	Burnham, Williams & Co., Philadelphia, U.S.A.	—	Baldwin, Philadelphia
Burrell C., & Sons, Ltd., St. Nicholas Works, Thetford, Norfolk		—	Burrell, Thetford
1 4	Burton C.W., Griffiths & Co., 1, 2 & 3, Ludgate Square, E.C.	{ Bank 5423 }	Hibon, London
6	Butler J., & Co., Victoria Ironworks, Halifax	216	Butler, Halifax, England
Butters Bros. & Co., 20, Waterloo St., Glasgow		3039	Butters, Glasgow
Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester		6622	Glasses, Newton Heath
Caird & Rayner, 777, Commercial Rd., Limehouse, E.		Eastern 210	Vaporize, London
Caledonian Engineering & Shipbuilding Co., Preston, Lancashire		Preston 126	Cruzeiro, Preston
1 3	Campbell & Calderwood, Soho Engine Works, Paisley	162	Soho, Paisley
1 3 4 6	Campbell Gas Engine Co., Ltd., Halifax, England	92	Camgas, Halifax

Tele. Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private. 8 International. 9 Vanguard. 11 Scott's. 14 Commercial. 15 Atlantic Cable. 19 Universal Mining. 26 Zebra.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Cameron John, Ltd., Oldfield Rd. Ironworks, Salford	9002	Original, Manchester
1 2	Cammell Laird & Co. Ltd., Cyclops Steel & Ironworks, Sheffield	874	Cammell, Sheffield
1 2	Cammell Laird & Co. Ltd., 9, Victoria St., Westminster, S.W. Westminster 3115		
1	Canning W., & Co., Birmingham	2220 & 1027	Materials, Birmingham
	Cape Asbestos Co., Ltd., 8, Minories, E.C.	—	[Tyne
4	Capell Fan Co., 13, Mosley St., Newcastle-on-Tyne	1858	Centrifuge, Newcastle-on-
1 4 16	Carborundum Co., 27, Chancery Lane, W.C.	Central 11924	Carborund, London
	Carbrook Steel Works, Sheffield	35	Forge, Sheffield
1	Carron Company, Carron, Stirlingshire, N.B.	Falkirk 14	Esto, Falkirk
1 6	Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow ..	3601	Holisting, Glasgow
	Carver C. F., Ltd., Alfred St. Mills, Nottingham	477	Carver, Nottingham
	Chadburn's (Ship) Telegraph Co., Ltd., 11, Waterloo Rd., Liverpool	826	Chadburn, Liverpool
1	Chaplin Alex., & Co., Govan, Glasgow	—	Chaplin, Glasgow
	Chatwin Thos., Great Tindal St., Birmingham	—	Chatwin, Birmingham
6	Cherry John, & Sons, Pump Works, Beverley, Yorks	—	Cherry, Beverley
	Chillingworth Rud. Works, London Office: 6, Aldersgate St., E.C.	London Wall 4079	
1 4	Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.	{ London Wall 1119 Central 2974 }	Opodeldoc, London
1 2 3	Clarke, Chapman & Co., Ltd., Gateshead-upon-Tyne	{ 1070 & 1073 P.O. 137 }	Cyclops, Gateshead
	Clay Cross Co., Clay Cross, near Chesterfield	147	Jackson, Clay Cross
	Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds ..	543	Gas, Leeds
1 2 6	Cleveland Bridge & Engineering Co., Ltd., Darlington ..	27	Cleveland, Darlington
	Clifton & Waddell, Johnstone, near Glasgow	—	
	Clirehugh S. V., 4, Queen Victoria St., E.C.	—	
	Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow	Hillhead 186	Corrugated, Glasgow
1	Cochran & Co., Annan, Ltd., Annan, N.B.	513	Multitube, Annan
1 3	Cochrane John, Barrhead, N.B.	—	Cochrane, Barrhead
	Coles H. J., London Crane Works, Derby	—	Coles, Derby
	Coltman H., & Sons, Loughborough	27	Coltman's, Loughborough
1	Coltman Walter W., & Co., Central Boiler Works, Loughborough ..	51	Boilers, Loughborough
1 10	Colville David, & Sons, Ltd., Dalzell Steel and Iron Works, Motherwell, near Glasgow	{ M. 9 Special Wire 3755 }	Colville, Motherwell
1 10	Colville David, & Sons, Ltd., 54, Old Broad St., E.C.	—	Colville, London
1 16	Compagnie Centrale de Construction, Ltd., Dashwood House, New Broad St., E.C.	Central 12107	Radsatz, London
	Consolidated Engineering Co., Ltd., Slough	7	Gotha, Slough
4	Consolidated Pneumatic Tool Co., Ltd., Palace Chambers, 9, Bridge St., Westminster, S.W.	Gerrard 2052 & 3987	Caulking, London
	Continuous Rail Joint Co. of Great Britain, Ltd., 20, King William St., E.C.	P.O. Central 5002	Junctionis, London
	Conveyor & Elevator Co., Accrington, Lancashire	0279	Conveyor, Accrington
	Cook Robt. J., & Hammond, 2 & 3, Tothill St., S.W.	Victoria 551	Cartoons, London
1 2	Cowans, Sheldon & Co., Ltd., Carlisle	1013	St. Nicholas, Carlisle

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NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS
Cowlshaw, Walker & Co., Ltd., Etruria, Stoke-on-Trent ..		—	Cowlshaw, Etruria, Stoke-on-Trent
1 2 3	Craddock Geo., & Co., Wire Rope Works, Wakefield	26	Craddock, Wakefield
1 20	Craig A. F. & Co., Ltd., Paisley	30	Craig, Paisley
	Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B. ..	15	Craig-Donald, Johnstone
	Craven Brothers, Ltd., Vauxhall Wks., Osborne St., Manchester ..	659	Vauxhall, Manchester
1 3 4	Croft & Perkins, Thornberry Rd., Bradford, Yorks. ..	3099 & 3100	Pulleys, Bradford
	Crompton & Co., Ltd., Arc Works, Chelmsford	2	Crompton, Chelmsford
	Crompton & Co., Ltd., Salisbury House, London { P.O. Central 485 } Wall, E.C. { London Wall 1259 }		Crompton, London
	Crosby Steam Gage & Valve Co., 147, Queen Victoria St., E.C.	Bank 509	Crosby, London
1 16	Crosier, Stephens & Co., 2, Collingwood St., Newcastle-on-Tyne	1481	Cromil, Newcastle-on-Tyne
2	Crossley Bros., Ltd., Openshaw, Manchester	—	Crossleys, Openshaw
	Crow, Harvey & Co., Park Grove Iron Works, Glasgow ..	1580	Cook, Glasgow
	Cruikshanks & Fairweather, 63, St. Vincent St., Glasgow ..	791	Patents, Glasgow
	Cubitt William, & Co., 258, Gray's Inn Rd., W.C.	—	Cubit, London
	Custodis Alphons, Co., 119, Victoria St., S.W.	Victoria 779	
1 4	Cutbill-King & Co., 26, Nicholas Lane, E.C.	Avenue 5978	Lockett, London
Dalglish A. & W., West of Scotland Boiler Works, Pollokshaws, Glasgow			
		Langside 1 y	Evaporate, Pollokshaws
1	Daniell S. A., Ltd., Lion Works, Birmingham	746	Daniell, Birmingham
1	Daniels T. H. & J., Ltd., Stroud, Glos.	42	Daniels, Stroud
	Darlington Forge Co., Ltd., Darlington	9 & 10	Forge, Darlington
1 2 3 5 6	Davey, Paxman & Co., Ltd., Standard Ironworks, Colchester ..	—	Paxman, Colchester
1 2 3 5 6	Davey, Paxman & Co., Ltd., 78, Queen Victoria St., E.C. ..	Bank 697	Paxman, London
1 4 6 21	Davidson & Co., Ltd., Sirocco Engineering Works, Belfast Ulster District, N. T. Co., Ltd. 327		Sirocco, Belfast
	Davidson & Co., Hulme	—	
	Davies & Metcalfe, Ltd., Romiley, Manchester	Stockport 219	Loco Works, Romiley
	Davies W. J., & Sons, 109, Weston St., S.E.	—	Emery, London
1	Davis & Primrose, Etna Iron Works, Bangor Rd., Leith, N.B. ..	—	Etna, Leith
1 2 5	Daw A. & Z., 11, Queen Victoria St., E.C.	P.O. Central 4151	Guldnes, London
	Day, Summers & Co., Ltd., Northam Ironworks, Southampton ..	48	Day Summers, S'hampton
1	De Bergue & Co., Ltd., Strangeways Iron Works, Manchester ..	1921	Debergue, Manchester
	Dean, Smith & Grace, Ltd., Keighley	88	Grace, Keighley
1 2	Deighton's Patent Flue & Tube Co., Ltd., Vulcan Works, Pepper Rd., Leeds	1674	Flues, Leeds
1	Delta Metal Co., Ltd., East Greenwich, S.E.	Deptford 250	Delta, London
1	Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow ..	505	Dempster, Glasgow
4	Denison Saml., & Son, Ltd., Far Hunslet, Leeds, S.	1238	Weigh, Leeds
4	Dennis W. F., & Co., 49, Queen Victoria St., E.C.	Bank 343	Fredennis, London
	Dennystown Forge Co., Dumbarton	56	Forge, Dumbarton
	Dewhurst's Engineering Co., Ltd., Sheffield	1614	Dewhurst, Attercliffe Road, Sheffield
1 2 3 4	Dick, Kerr & Co., Ltd., Abchurch Yard, Cannon St., E.C. Avenue 4308		Dicker, London

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NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 4 6 20	Diesel Engine Co., Ltd. , 179, Queen Victoria St., E.C.	Central 5848	Dieselben, London
1 4	Dixon Jos., Crucible Co. , 26, Victoria St., S.W.	Gerrard 4271	Lustroso, London
1	Donovan & Co. , Ltd., Broughton Bridge Iron Works, Salford	Manchester 3404	Dazzle, Manchester
1 2	Douglas & Grant , Dunnikier Foundry, Kirkcaldy, N.B.	105	Douglas, Kirkcaldy
1 5	Douglas Wm., & Sons, Ltd. , Douglas Wharf, Putney, S.W.	[Battersea 242	Ibidem, London
1	Doulton & Co. , Ltd., Lambeth .. .. .	..Hop 4621	Doulton, London
	Dowson Economic Gas & Power Co. , Ltd., 39, Victoria St., Westminster, S.W.	—	Gaseous, London
	Drake & Gorham, Ltd. , 66, Victoria St., S.W.	[Westminster 71 & 393	Accumulator London
	Drysdale & Co. , Bon Accord Engine Works, Glasgow	2505	Bonaccord, Glasgow
	Dudbridge Iron Works, Ltd. , Dudbridge, near Stroud	Stroud 7	Humpidge, Cainscross
12 3 4 16	Dudgeon F. S. , 30, Great St. Helen's, E.C.	Avenue 1434	Plasma, London
	Duncan, Watson & Co. , Dashwood House, New Broad St., E.C.	London Wall 2545	Olivoline, London
1	Dunlop Rubber Co. , Ltd., Salford St., Aston, Birmingham	—	Elastic, Birmingham
	East Ferry Road Eng. Works Co., Ltd. , Millwall, E. [Eastern 5202		Hydrostatic, London
1	Easton & Bessemer, Ltd. , Taunton	0146	Eastwald, Taunton
1	Edmeston A., & Sons , Patricroft, near Manchester	Eccles 107	Edmeston, Patricroft
1 20	Edwards Air Pump Syndicate, Ltd. , 3 & 5, Crown Court, Old Broad St., E.C.	London Wall 2369	Management, London
1	Electric & Ordnance Accessories Co. , Stellite Works, Birmingham	2685	Stellite, Birmingham
	Electrical Co., Ltd. , 121 to 125, Charing Cross Rd., W.C.	Gerrard 4311 to 4314	Galvanoscope, London
1 2	Electrical Power Storage Co., Ltd. , 4, Great Winchester St., E.C.	Avenue 538	Storage, London
	Elektrochemische Werke , G.m.b.H., Bitterfeld, Germany	—	
	Elliot George, & Co., Ltd. , 16, Great George St., S.W.	Westminster 297	Elliot Company, London
	Elliot George, & Co., Ltd. , Cardiff	175	Elliot Company, Cardiff
	Elmore's Metall A.G. , Schladern, Seig., Germany	—	Elmores Schladern, Ger-
1	Empire Roller Bearings Co. , Ltd., 15, Victoria St., S.W.	Westminster 267	Empireste, London
1 16	"Engineering," 35 & 36, Bedford St., Strand, W.C.	Gerrard 3663	Engineering, London
1 3 4	English McKenna Process Co., Ltd. , Dock Rd., Seacombe, Birkenhead	Liscard 45	Rails, Birkenhead
1 3 4	English McKenna Process Co., Ltd. , York Mansion, Westminster, S.W.	Westminster 732	Emkenco, London
16 25	Evans Joseph, & Sons , Wolverhampton	—	Evans, Wolverhampton
1 4	Eyre Smelting Co. , Ltd., Bardon Rd. Works, Tonbridge, Kent	134	Eyrish, Tonbridge
	Fairbairn, Macpherson , Wellington Foundry, Leeds	275	Fairbairns, Leeds
1 4	Fairbanks, Morse & Co. , 126, Southwark St., S.E.	[Hop 946 & 2521	Fairminded, London
	Fairley James, & Sons , Old Mint, Shadwell St., Birmingham	253	Fairley, Birmingham
1 2	Fawcett, Preston & Co. , Ltd., Liverpool	Royal 1773, 2664	Fawcett, Liverpool
	Felt & Tarrant Mfg. Co. , Illinois & Orleans Sts., Chicago, U.S.A.	—	

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 16 Western Union. 20 McNeill's. 25 Premier.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Ferguson Brothers , Newark Works, Port Glasgow, N.B.	28	Dredger , Port Glasgow
1	Fielding & Platt , Ltd., Gloucester	58	Atlas , Gloucester
	Fife Forge Co. , Kirkcaldy, Scotland	18	Fife Forge , Kirkcaldy
	Finch Edward, & Co., Ltd., Chepstow	6	Finch , Chepstow
2 3 5	Firth Thos. , & Sons, Ltd., Norfolk Works, Sheffield	676	Firth , Sheffield
	Firth William, Ltd., Water Lane, Leeds	3590	Rails , Leeds
1	Fleming & Ferguson , Ltd., Paisley, near Glasgow	18	Phoenix , Paisley
1	Fleming, Birkby & Goodall , Ltd., West Grove Mill, Halifax	48	Fleming , Halifax
1	Fleming, Birkby & Goodall , Ltd., Clifton Bridge Mills, Brighouse	—	Goodalls , Brighouse
1	Fleming, Birkby & Goodall , Ltd., Salford Card Works, Brighouse	—	Salford , Brighouse
1	Fleming, Birkby & Goodall , Ltd., Woodfield Mills, Liversedge	—	Woodfield , Liversedge
1 16	Forges, Usines & Fonderies , de et a Haine-Saint-Pierre, } Belgium	9	{ Goldschmid , Haine-Saint-Pierre, Belgium
	Forrest & Co. , Ltd., 22, Billiter St., E.C.	{ Avenue 5942 Central 10,492	{ Forestiere , London
	Forrest & Co. , Ltd., Wyvenhoe, Essex	—	Forrest , Wyvenhoe
1 2 5	Fowler John , & Co. (Leeds), Ltd., 6, Lombard St., E.C.	—	Steamplow , London
1 2 5	Fowler John , & Co. (Leeds), Ltd., Steam Plough Works, Leeds	513	Fowler , Leeds
	France & Morgan , Whitefield Brass Works, Govan, Glasgow [Govan 69		France , Glasgow
1 2 4 5	Fraser & Chalmers , Ltd., 3, London Wall { London Wall 1024 & 1025 Buildings, E.C.	{ P.O. Central 351	{ Vanner , London
2	Fraser Douglas , & Sons, Arbroath, Scotland	28	Fraser , Arbroath
	Fuller, Horsey, Sons & Cassell , 11, Billiter Square, E.C.	Avenue 746	Fuller Horsey , London
1	Fullerton, Hodgart & Barclay , Ltd., Vulcan Foundry and Engine Works, Paisley	63	Vulcan , Paisley
1 2 3 6	Galloways Ltd. , Manchester	195 & 5004	Galloway , Manchester
	Gandy Belt Mfg. Co. , Ltd., Wheatland Works, Seacombe, Cheshire	Liscard 42	Gandy , Birkenhead
	Gandy Belt Mfg. Co. , Ltd., 97, Queen Victoria St., E.C.	—	Gandy , London
1 3	Gardner L. , & Sons, Ltd., Barton Hall Engine Works, Patricroft, Manchester	Eccles 48	Theorem , Patricroft
	Garnett P. & Co. , Ltd., Cleckheaton	9	Garnett , Cleckheaton
1	Garrett R. , & Sons, Ltd., Leiston Works, Suffolk	—	Garrett , Leiston
1 4 22	Gasmotoren-Fabrik Deutz , Cologne-Deutz 34, Germany	2295-6-7	Ottomotor , Cologne, Germany
	Gebroekens C. Otto , Grosse Reichenstrasse 53-67, Hamburg	1069	Riemlager , Hamburg
1	Gerhardt Erich , Dresden A., Germany	Dresden 2701	Erich Gorhardt , Dresden
	German Niles Tool Works , Ober-Schöneeweide, near Berlin	—	Nileswerke , Ober-Schöneeweide
	Gibbins R. O. , & Co., Berkeley St., Birmingham	741	Gibbins , Birmingham
1 3 12	Gibbons Bros. , Ltd., Dudley, Worcestershire	10A	Gibbons , Lower Gornal
	Gillott Jos. , & Sons (Dept. 17), 37, Gracechurch St., E.C. [G.P.O. Central 8233		
	Gilmour W. & O. , St. John's Hill, Edinburgh	Central 575	Belting , Edinburgh
	Gimson & Co. (Leicester), Ltd., Leicester	—	
4	Glacier Anti-Friction Metal Co. , Ltd., 91, Queen Victoria St., E.C.	Bank 5450	Beaucoup , London

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
Private. 12 Unicode. 16 Western Union. 22 St. udt & Handels.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Glasgow Electric Crane & Hoist Co., Ltd., Parkhead, Glasgow		Bridgeton 2631	Adaptable, Glasgow
Glasgow Iron & Steel Co., Ltd., Wishaw Iron and Steel Works, Wishaw		825	Ingot, Wishaw
Glasgow Railway Engineering Co., Ltd., Govan, Glasgow		Govan 53	Expansion, Glasgow
1 2	Glenfield & Kennedy, Ltd., Kilmarnock, N.B.	28	Glenfield, Kilmarnock
1 4	Globe Pneumatic Engineering Co., Ltd., 150, Queen Victoria St., E.C.	Central 10418	Pneumatoid, London
Glover Thomas & Co., Ltd., 49, Queen Victoria St., E.C. ..		Bank 6159	Gothic, London
Godfrey J. T., 24A, High St., Loughborough, Leicestershire ..		—	Maxim, Loughborough
1	Goldsworthy T., & Son, Hulme, Manchester	993	Goldsworthy, Manchester
1 4	Gordon James & Co., 52, Lime St., E.C.	P.O. Central 1674	Gordolobo, London
6 15 16	Goubert Mfg. Co., New York, U.S.A.	Cortlandt 4728	Goubert, New York
6 5 16	Goubert Mfg. Co., 28, Hatton Garden, E.C.	P.O. Central 6602	Unisonally, London
1	Grafton & Co., Bedford	—	Grafton, Bedford
1	Grafton & Co., 113, Cannon St., E.C.	—	Graftonian, London
Grantham Boiler & Crank Co., Ltd., Grantham		—	Land, Grantham
Greaves, Bull & Lakin, Ltd., 16A, South Wharf, Paddington, W.		Paddington 7138	Lias, London
Greaves, Bull & Lakin, Ltd., Harbury, Leamington		—	Greaves, Harbury
1	Green & Boulding Ltd., 28, New Bridge St., E.C.	Central 12,455	Temperature, London
Green T., & Son, Smithfield Iron Works, Leeds		158	Smithfield, Leeds
1	Green T., & Son, Ltd., New Surrey Works, Southwark St., S.E. ..	Hop 571	Surrey Works, London
1 2 3 4	Greenwood & Batley, Ltd., Albion Works, Leeds	270	Greenwood, Leeds
1	Gresham & Craven, Ltd., Salford, Manchester	613	Brake, Manchester
1 2 4 6	Greverer J. & H., Eldon St. House, E.C.	Central 1842	Greverer, London
Grice, Grice & Son, Sheepcote St., Birmingham		—	Grice, Birmingham
Grieve John, & Co., Motherwell, Scotland		—	Grieve, Motherwell
Griffin C., & Co., Ltd., Exeter St., Strand, W.O.		—	—
1	Griffin Engineering Co., Bath	—	Motor, Bath
Grover & Co., Ltd., Wharf Rd., City Rd., N.		—	Adopted, London
1	Guest, Keen & Nettlefolds, Ltd., 16, Broad St., Birmingham ..	—	Nettlefolds, Birmingham
1	Guest, Keen & Nettlefolds, Ltd., London	Holborn 2763	Nettlefolds, London
Gulibert-Martin, 9, Edmund Place, Aldersgate, E.C.		Central 2799	Photophore, London
1	Gunther W., & Sons, Central Works, Oldham	317	Gunther, Oldham
1 2 8	Gutehoffnungshütte Coal, Iron, Steel & Engineering Co., Oberhausen-2, Rhineland	4, 10, 19,	Hoffnungshuette, Oberhausenrhein
16 22		20, 29, 164	
1 2 5	Gwynnes Ltd., Hammersmith Ironworks, W., & 81, Cannon St., E.C.	Bank 544	Gwynne, London
1 5	Hadfield's Steel Foundry Co., Ltd., Hecla Works, Sheffield ..	750	Hadfield, Sheffield
Hagens Locomotive Works, Erfurt, Germany		—	—
1 6 8	Haigh W. B., & Co., Ltd., Globe Ironworks, Oldham	146	Haigh, Oldham
Halden J., & Co., 8, Albert Square, Manchester		548	Halden, Manchester
Haley E. & W. H., Lister Hills, Bradford		467	Castings, Bradford
1 2	Hall J. & E., Ltd., 23, St. Swithin's Lane, E.C.	Bank 846	Hallford, London
1 2	Hall J. & E., Ltd., Dartford, Kent	Dartford 7	Hallford, Dartford
1 2	Hall J. P., & Co., Blackriding Ironworks, Werneth, Oldham ..	300	Dynamo, Oldham (boro
Hall J. P., & Sons, Ltd., Peterborough		—	Hall, Engineers, Peter-

Tale. Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's 5 Moreing's. 6 Private.
8 International. 15 Atlantic Cable. 16 Western Union. 22 Staudt & Hundius.

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NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Hall J. S. , Midland Ironworks, Newark-on-Trent		—	Hall, Engineer , Newark
Handyside Andrew, & Co., Ltd. , Britannia Ironworks, Derby ..		57	Handyside , Derby
Handyside Andrew, & Co., Ltd. , 104, Qn. Victoria St., E.C. (Bank 969		20, 1951	Handyside , London
1 16 Haniel & Lueg , Düsseldorf, Germany		20, 1951	Haniel Lueg , Düsseldorf
1 Hanna, Donald & Wilson , Abercorn Foundry, Paisley		72	Donald , Paisley
Hannan & Buchanan , 75, Robertson St., Glasgow		1899	
1 Hannoversche Maschinenbau-Aktien-Gesellschaft } vormals Georg Egestorff, Linden vor Hannover, Germany		30	Maschinenfabrik , Hanno- ver, Linden, Germany
1 3 Hardy Patent Pick Co., Ltd. , Sheffield		157	Hardypick , Sheffield
Harris & Mills , 23, Southampton Buildings, W.C.		—	Privilege , London
6 Hartley & Sugden, Ltd. , Halifax		38	Boilers , Halifax
Hartnell Wilson, & Co., Ltd. , Volt Works, Kirkstall Rd., Leeds		232	Hartnell , Leeds
22 Hartung, Kuhn & Co. , Düsseldorf		1084	Regulator , Düsseldorf
1 2 4 Harvey Engineering Co., Ltd. , Scotland St. { Corporation X 555		and 1865	Maconie , Glasgow
Engine Works, Glasgow			
Harvey G. A., & Co. , Lewisham, S.E.		Deptford 28	Cheaper , London
1 6 Hasenclever C. W., Söhne , Düsseldorf, Germany		585	Maschinenfabrik , Hasen- clever, Düsseldorf
1 Haslam Foundry & Engineering Co., Ltd. , Derby		50	Zero , Derby
1 20 Haste Pump Co., Ltd. , Crown Buildings, Crown { London Wall 2369		Central 2967	Pumperling , London
Court, Old Broad St., E.C.			
1 Hathorn, Davey & Co., Ltd. , Sun Foundry, Leeds		524	Hathorn , Leeds
Hawthorn B. W. Leslie & Co., Ltd. , Newcastle-on-Tyne ..		—	Locomotive , Newcastle
1 Hayes Edward , Stony Stratford, Wolverton		—	Hayes , Stony Stratford
1 Hayes Edward , Palace Chambers, 9, Bridge St., S.W. ..		Victoria 1762	Seyah , London
1 6 16 Hayward-Tyler & Co., Ltd. , 99, Queen Victoria St., E.C. (Bank 192 & 199		22 & 74	Tylerox , London
4 Head, Wrightson & Co., Ltd. , Teesdale Ironworks, { 22 & 74		G.P.O. 15	Teesdale , Stockton-on- Tees
Thornaby-on-Tees			
Heap Joshua, & Co., Ltd. , Ashton-under-Lyne		—	Heap, Limited , Ashton- under-Lyne
1 5 Heenan & Froude, Ltd. , Newton Heath Ironworks, Manchester		968 A	Spherical , Newton Heath
1 5 Heenan & Froude, Ltd. , Worcester Eng. Works, Worcester ..		21	Heenan , Worcester
Heinrich, Winby & Co. , 20, King William St., E.C. ..		Central 5002	Winby , London
Henderson & Glass , Liverpool		791	Vulcan , Liverpool
Hendry James , Laminated Leather Works, Bridge- { Corporation Y 614		2659	Laminated , Glasgow
ton, Glasgow			
1 22 Henschel & Sohn , Cassel, Germany		43	Locomotive , Cassel, Ger-
Herbert Alfred, Ltd. , Coventry		52	Lathe , Coventry (many
1 2 Hetherington John, & Sons, Ltd. , Manchester		1783	Heth , Manchester
Higginbottom & Mannoek, Ltd. , West Gorton, Manchester		1577	Crown , Gortonbrook
Higgins C. M., & Co. , 11, Farrington Avenue, E.C.		—	
Hill & Smith , Brierley Hill Ironworks, near Dudley ..		Tipton 2A	Fencing , Brierley Hill
Hill & Smith , 118, Queen Victoria St., E.C.		Bank 15012	Fencing , London
Hirst F. , Folly Hall, Huddersfield		568	Helical , Huddersfield
1 2 3 5 Hobdell, Way & Co., Ltd. , 63, Crutched Friars, E.C. Avenue 5931		5931	Hobnalls , London
1 Hoffmann Manufacturing Co., Ltd. , Chelmsford		21	Hoffmann , Chelmsford
4 Holmes & Brooke, Ltd. , Sirius Works, West Gorton, Manchester		2663	Influx , Manchester
Hollingdrake Hy., & Son (No. 4), Stockport		—	Hollingdrake , Stockport
4 Holmes W. C., & Co. , Huddersfield		113	Holmes , Huddersfield

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6 Private. 16 Western Union. 20 McNeill's. 22 Staudt & Hundius.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
3 4 16	Hopkinson J., & Co., Ltd., Huddersfield	169	Hopkinson, Huddersfield
1 2 3 6	Hornsbys R., & Sons, Ltd., Spittlegate Ironworks, Grantham ..		Hornsbys, Grantham
1 2 3 6	Hornsbys R., & Sons, Ltd., 75A, Queen Victoria St., E.C. ..	Bank 1960	Hornsbys, London
1 4	Horsfall Destructor Co., Ltd., Station Sheds, Holbeck, near Leeds	Central 2006	Destructor, Leeds
1 4	Horsfall Destructor Co., Ltd., 19, Old Queen St., S.W. ..	—	Destructor, London
1	Howard Bros., 1108, Queen Victoria St., E.C.	Bank 5690	Countable, London
1	Howard Bros., 40, Paradise St., Liverpool	Central 7150	Sonnez, Liverpool
	Howard Pneumatic Engineering Co., Ltd., Fort Rd., Eastbourne	79x	Inventions, Eastbourne
	Howden James, & Co., Scotland St., Glasgow	{ South Side 1795 } { Corporation X 195 }	Howden, Glasgow
1	Howell & Co., Ltd., Brook Steel Works, Sheffield	—	Howell, Sheffield
	Hudson John, & Co.'s Successors, 4, Victoria Warehouses, Mansell St., E.	Bank 5327	Adamantos, London
1 2	Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds ..	504	Loco, Leeds
	Hughes & Lancaster, Liverpool	2034	Diagram, Liverpool
	Hughes & Lancaster, 18, Victoria St., S.W.	Westminster 372	Voldance, London
	Hulburd Engineering Co., 150, Leadenhall St., E.C. ..	—	Unwavering, London
1 2	Hulse & Co., Ltd., Ordsal Works, Salford, Manchester ..	1427	Ealuh, Manchester
1	Hunslet Engine Co., Ltd., Leeds	528	Engine, Leeds
	Hunt Robert W., & Co., Norfolk House, Cannon St., E.C. ..	Bank 5770	Metalados, London
1	Hunter & English, Bow, E.	Eastern 403	Venator, London
	Murst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell	29	Nelson, Motherwell
14 15	Hyde Windlass Co., Bath, Maine, U.S.A.	80	Hyde, Bath, U.S.A.
2	India Rubber, Gutta Percha & Telegraph Works Co., Ltd., 106, Cannon St., E.C.	Bank 726 & 746	Silvergray, London
2	India Rubber, Gutta Percha & Telegraph Works Co., Ltd., Silvertown, Essex	—	Graysilver, London
1 2	Ingersoll-Rand Co., 114, Queen Victoria St., E.C. ..	Bank 5523	Ingersoll, London
1 2	Ingersoll-Sergeant Drill Co., 114A, Queen Victoria St., E.C. [Bank 5523		Enyam, London
	Isca Foundry & Engineering Co., Newport, Monmouthshire ..	—	Isca, Newport
	Isca Foundry & Engineering Co., 10, Bush Lane, E.C. ..	—	Isca, London
	Isher C., & Co., Artesian Works, Bear Lane, S.E. .. ..	..Hop 4849	Isher, London
	Isher Limited, Steam Crane Works, Stanningley, Leeds ..	2045	Isher, Stanningley
1 2 4 16	Jackman J. W., & Co., Ltd., 39, Victoria St., S.W. ..	Victoria 30	Molders, London
1 16	Jackman Joseph, & Co., Ltd., Persberg Steel Works, Attercliffe Common, Sheffield	94	Persberg, Sheffield
	Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester ..	623	Jacksons, Manchester
1 4	Jenkin Bros., 71, John St., New York, U.S.A. .. ..	.. Cortlandt 419	Pipkin, New York
1 2 3 } 4 5 6 }	Jessop & Appleby Bros. (Leicester & London), Ltd., Leicester ..	73	Jessop, Leicester
1 2 3 } 4 5 6 }	Jessop & Appleby Bros. (Leicester & London), Ltd., London [Bank 5901		Millwright, London
1 2	Jessop Wm., & Sons, Ltd., Brightside Works, Sheffield ..	..152 & 2076	Jessops, Sheffield
1 2 3	Johnson & Phillips, Ltd., Victoria Wks., Charlton, Kent [Woolwich 23		June, Charlton

Telegraphic Codes in use: 1 A B C. 2 A L. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private.
14 Commercial. 15 Atlantic Cable. 16 Western Union. 18 Directory.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 3 Johnson & Phillips, Ltd. , 14, Union Court, E.C. .. Central 75		Juno, London
Jones A. A., Pollard & Shipman, Ltd. , East Park Rd., Leicester 740		Chuck, Leicester
Jones George, Ltd. , Lionel St., Birmingham .. 1003		Rolling, Birmingham
Jones & Lamson Machine Co. , Jubilee Buildings, 97, Queen Victoria St., E.C. Bank 824		Turretorum, London
Kay James C., & Co., Ltd. , Barnbrook Works, Bury, Lancs. .. 4		Kays, Engineers, Bury
1 Kaye Jos., & Sons, Ltd. , 93, High Holborn, W.C. Holborn 1847		Kaye, High Holborn,
Kaye Jos., & Sons, Ltd. , Look Works, Leeds 506		Wedge, Leeds [London
Keop F. A., Juxon & Co. , Empire Works, Barn St., Birmingham 3779		Structures, Birmingham
1 Keith James, & Blackman Co., Ltd. , Farringdon Avenue Holborn 620		Ventilator, London
Kell T., & Son , 40, King St., Covent Garden, W.C. —		Lithographer, London
1 4 16 Kennilcott Water Softener Co. , 29, Gt. St. Helen's, E.C. [Avenue 759		Watertanks, London
1 2 Kerr, Stuart & Co., Ltd. , 1, Broad St. Place, E.C. [P.O. Central 13,190		Meliss, London
1 2 Kerr, Stuart & Co., Ltd. , Stoke-on-Trent 213		California, Stoke-on-Trent
Kincaid John G., & Co. , Greenock, Scotland 95		Kincaid, Greenock
1 2 King H. J. H., & Co. , Nailsworth, Glos. 312		King, Engineer, Nail-
Kirk Wheatley, Price & Co. , 46, Watling St., E.C. .. Bank 5077		Indicos, London [worth
Kirk Wheatley, Price & Co. , Albert Sq., Manchester New 199		Indicator, Manchester
Kirkaldy John, Ltd. , 101, Leadenhall St., E.C. Avenue 1223		Compactum, London
Kirkstall Forge Co., Leeds —		Forge, Kirkstall
1 2 3 Klein Engineering Co., Ltd. , 94, Market St., Manchester .. 4070		Modernise, Manchester
1 Klinger Richard, & Co. , 66, Fenchurch St., E.C. —		Sustained, London
1 Koop Ernest C. , 42-44, Moor Lane, E.C. London Wall 349		Nahmer, London
Korting Bros., Ltd. , 53, Victoria St., Westminster, S.W. —		Korting, London
Kramos Ltd. , Locksbrook Engineering Works, Bath Weston 20		Kramos, Locksbrook, Bath
Krupp Aktiengesellschaft Grusonwerk, Magdeburg- Buckau, Germany —		Grusonwerk, Magdeburg
1 Kuettner, Macdonell & Cookson, Ltd. , 37, Endell St., W.C. Gerrard 6409		Kuemacoo, London
1 4 6 Kynoch Limited , Witton, Birmingham 2530		Gasengine, Birmingham
1 3 4 Lacy-Hulbert & Co. , 25, Victoria St., S.W. Victoria 944		Percussive, London
1 Lahmeyer Electrical Co., Ltd. , 109-111, New Oxford St., W.C. Gerrard 2822		Drehstrom, London
1 2 Lanarkshire Steel Co., Ltd. , Motherwell, N.B. 7		Siemens, Motherwell
1 Lancaster & Tonge, Ltd. , Pendleton, near Manchester { 559 New 5001		Pistons, Manchester
Lane J. J., Ltd. , Phoenix Engine Wks., Cranbrook St., Old Ford, E. [East 353		Driftpiece, London
6 Lang John, & Sons, Lathe Makers , Johnstone, N.B. 12		Lang, Johnstone
1 Lassen & Hjort , 52, Queen Victoria St., E.C. P.O. Central 4369		Tentworth, London
1 Laurence, Scott & Co., Ltd. , Norwich 246		Gothic, Norwich
1 Laycock W. S., Ltd. , Victoria Works, Millhouses, Sheffield .. 907		Invention, Sheffield
1 Le Carbone , 17, Water Lane, Great Tower St., E.C. —		Lacombe, London
Le Grand & Sutcliffe , 125, Bunhill Row, E.C. Central 1649		Abyssinian, London
Ledward & Beckett, Ltd. , Sanctuary House, Tothill St., S.W. Westminster 59		Preferment, London
Leeds Engineering and Hydraulic Co., Ltd. , Cross Stamford St., Leeds 786		Pumps, Leeds

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6 Private. 16 Western Union.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Leeds Forge Co., Ltd., Leeds		107	Vulpec, Leeds
1 2	Lees T. & R., Hollinwood, near Manchester	Falsworth 16	Lees, Hollinwood
	Leroy F., & Co., 20, Gray St., Commercial Rd., W.	—	Efficiency, London
1 2	Lewis E., & Sons, Wolverhampton	7015	Lewis, Wolverhampton
1 2 4 6	Lidgerwood Mfg. Co., Caxton House, Westminster, S.W.	—	Lidgerwood, London
	Liebau & Co., G.m.b.H., Berlin W., Potsdamerstr., 10/11	—	
	Lindsay R. B., & Co., 51, Main St., Plantation, Glasgow	1880	Conical, Glasgow
	Liverpool Engineering & Condenser Co., Ltd., Brunswick Dock, Liverpool	Central 7300	Eliminator, Liverpool
2	Lehnitz & Co., Ltd., Renfrew, Scotland	4	Lebnitz, Renfrew
2 10	Locomotive & Machine Co. of Montreal, Ltd., 26, Victoria St., Westminster, S.W.	Victoria 431	Sivad, London
2 10	Locomotive & Machine Co. of Montreal, Ltd., Imperial Bank Buildings, Victoria Square, Montreal, Canada	—	
	Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield	1376	Piston, Sheffield
	Lodge Bros. & Co., 14, New St., Birmingham	—	Igniter, Birmingham
1 4	London Emery Works Co., Park, Tottenham, N.	—	Naxium, London
	London Engineering Co., Ltd., 6, St. Helen's Place, E.C.		
	London Wall 928		Puccoon, London
1 2 3 4 16	Lubecker Machine and Manufacturing Co., 30, Gt. St. Helen's, E.C.	Avenue 1434	Plasmo, London
16	Lufkin Rule Co., 24 & 26, Holborn (Buchanan Buildings)	[Central 11,369	Lyncurium, London
1	Luke & Spencer, Ltd., Broadheath, near Manchester	[Altrincham 49	Emery, Altrincham
1	Lumby, Son & Wood, Ltd., Greetland, near Halifax	Elland 5	Lumby, Halifax
1 28	Lunken Valve Co., 35, Great Dover St., S.E.	—	Lunken, London
1 2 4 25	Lysaght John, Ltd., St. Vincent Ironworks, Bristol	P.O. 5 } 910, 911, 125, 107X, 107Y }	Lysaght, Bristol
	Machies Ltd., Berks Ironworks, Reading	86	Machinery, Reading
1 2 4	MacLellan P. & W., Ltd., Clutha Ironworks, Plantation, Glasgow	560	MacLellan, Glasgow
	MacLellan P. & W., Ltd., 7 & 8, Great Winchester St., E.C.	—	MacLellan, London
	Magnesia Coverings, Ltd., Washington Station, Co. Durham	Newcastle 1373	Chemical, Washington Station
4	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.	Bank 5925	Magnolier, London
	Main Geo., & Co., Packe St., Loughborough	—	Excelsior, Loughborough
	Manchester Steam Users' Association, 9, Mount St., Manchester	—	Steam Users, Manchester
1 2 4	Manlove, Elliott & Co., Ltd., Nottingham	274	Manloves, Nottingham
1 2 4	Manlove, Elliott & Co., Ltd., 41 & 42, Parliament St., S.W.	[Gerrard 3405	Manloves, London
1 3	Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds	514	Manning, Leeds
1 6	Marion & Co. Ltd., 22 & 23, Soho Square, W.	Gerrard 1693	Noiram, London
	Marsden H. R., Soho Foundry, Leeds	522	Marsden, Leeds
	Marsden John, & Son, 188, Regent Rd., Liverpool	Booth 41 & 541	Brazen, Liverpool
	Marshall, Fleming & Jack, Motherwell	—	Dellburn, Motherwell
	Marshall John, & Sons, Glasgow Tube Works, Glasgow, N.B.	2524	Tube, Glasgow
1 2 3 6	Marshall, Sons & Co., Ltd., Gainsborough	10	Marshalls, Gainsborough
1 2 3 6	Marshall, Sons & Co., Ltd., 79, Farringden Rd., E.C.	Holborn 648	Engine, London
1	Marx J., & Co., 133-9, Finsbury Pavement, E.C.	London Wall 9014	Schunstoff, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Morsing's.
6 Private. 10 Cosmopolitan. 16 Western Union. 25 Premier. 28 Manufacturer's Export.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Mason Bros., Brandon St., Leicester	—	Breaker, Leicester
	Mason Regulator Co., Boston, Mass., U.S.A.	—	Masonica, Boston, U.S.A.
	Masons Gas Power Co., Ltd., Alma Works, Levenshulme		
	Heaton Moor 39		Gasify, Levenshulme
1	Massey B. & S., Openshaw, Manchester	300	Massey, Openshaw
1 2 16	Mather & Platt, Ltd., Salford Ironworks, Manchester [5781, 5782 & 5783		Mather, Manchester
1	Matthews & Yates, Ltd., Cyclone Wks., Swinton, Manchester	1871	Cyclone, Swinton, Manchester
1 2 3 6	McKie & Baxter, Copland Works, Govan, Glasgow	1891	Calidad, Glasgow
1 2 3	McLachlan & Co., Ltd., Darlington	161	Railway, Darlington
	McNeil C., Kinning Park Ironworks, Glasgow	1556	Macneil, Glasgow
1 2 4 6	McOnie A. & P. W., Cessnock Engine Works, Govan, Glasgow		
	Govan, Corporation & National 71		Melada, Glasgow
	McTear & Co., Ltd., Newtownards Rd., Belfast	79	McTear, Belfast
	Measures Bros., Ltd., Southwark St., S.E.	Hop 547 & 586	Measures, London
1 3	Meehan & Sons, Ltd., Sootstoun Ironwks., Glasgow { Hillhead 437 }		Nautical, Glasgow
	Corporation W 229		
	Meldrum Bros., Ltd., 66, Victoria St., S.W.	Westminster 193	Meldrum, London
	Meldrum Bros., Ltd., Timperley, near Manchester	1674	Meldrum, Manchester
1	Melville & Macalpine, 615, Walnut St., Philadelphia, Pa., U.S.A.		
	Walnut 700		Consulting, Philadelphia
1	Merryweather & Sons, 63, Long Acre, W.C.	Gerrard 1795	Merywether, London
	Messer & Thorpe, 8, Quality Court, Chancery Lane, W.C.	—	
1 2	Metallic Valve Co., Colonial House, Water St., Liverpool	5818	Valve, Liverpool
	Metropolitan Amalgamated Railway Carriage & Wagon Co., Ltd., Sattle, Birmingham	4722 & 4723	Metro, Birmingham
1 4	Middleton Robt., Sheepsheep Foundry, Leeds	214	Hydraulic, Leeds
1 4	Middleton Robt., 9, Fenchurch Avenue, E.C.	—	Intensifier, London
	Midland Railway Carriage & Wagon Co., Shrewsbury	—	Midland, Shrewsbury
	Miller Hy. & Co., Ltd., Millgarth Works, Leeds	—	
6	Mirrlees Watson Co., Ltd., Scotland St., Glasgow	—	Mirrlees, Glasgow
1 2	Mitchell D. & Co., Ltd., Keighley, Yorks	193	Tools, Keighley
	Mitchell's Emery Wheel Co., Mill St., Bradford, Manchester	3575	Diameter, Manchester
	Moncrieff John, Ltd., Perth, Scotland	44	Moncrieff, Perth
	Moor & Co., 165, Princess St., Manchester	Central 6282	Toughest, Manchester
1	Mork Patent Pulley Block Co., 42-44, Moor Lane [London Wall 349		Nahmer, London
1 2	Morris-Hawkins Electrical Co., Ltd., 17, Charing Cross Rd., W.C.	Gerrard 2979	Aimstraight, London
	Motherwell Bridge Co., Ltd., Motherwell, N.B.	40	Bridge, Motherwell
4	Motherwell Iron & Steel Co., Ltd., Motherwell, Scotland	70	Hoops, Motherwell
1	Mumford A. G., Ltd., Culver St. Ironworks, Colchester		Mumford, Colchester
	Murray, McVinnie & Co., Mavisbank Quay, Glasgow	1736	Metallic, Glasgow
	Musgrave Bros., Crown Point Foundry, Leeds	1236	Tools, Leeds
	Musgrave & Co., Ltd., St. Ann's Ironworks, Belfast	68	Musgrave, Limited, Belfast
	Musker O. & A., Ltd., Liverpool	Anfield 215	Muskers, Liverpool

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6 Private. 16 Western Union.

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Nalder Bros. & Thompson, Ltd., 84, Queen St., E.C.		(Bank 124 & 161	Ooclude, London
1 2 Napier Bros., Ltd., 100, Hyde Park St., Glasgow		Argyle 714	Windlass, Glasgow
2 Nasmyth, Wilson & Co., Ltd., Bridgewater Foundry, Patricroft, near Manchester		Eccles 5	Nasmyth, Patricroft
National Boiler & General Insurance Co., Ltd., 22, St. Ann's Square, Manchester		1409	National, Manchester
1 2 16 National Explosives Co., Ltd., 11, Austin Friars, E.C.		London Wall 1965	Phillack, London
National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester		43	National, Ashton-under-Lyne
Negretti & Zambra, 38, Holborn Viaduct, E.C.		Holborn 583	Negretti, London
1 4 Nell Frederic, 46, Queen Victoria St., E.C.		Bank 903	Turbinatus, London
New Engine Co., Acton Hill Works, Acton, W.		Ealing 100	New Engine Co., Acton
New Explosives Co., Ltd., 62, London Wall, E.C.		—	Detonator, London
Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield		845	Newton, Sheffield
Newton & Nicholson, Tyne Dock Corrugated Packing Works, South Shields		0431	Corrugate, Tyne Dock
1 2 4 Newtons Ltd., Taunton		9	Arco, Taunton
19 Nicaise & Delcuve (Société Anonyme), La Louvière, Belgium		—	{ Nicaise Delcuve, La Louvière, Belgium
1 2 6 Niles Cement-Pond Co., Hamilton, Ohio, U.S.A.		—	Niles, Hamilton, Ohio
1 2 6 Niles Cement-Pond Co., 23 & 25, Victoria St., S.W.		Westminster 486	Niliacus, London
Wohle & Lund, Ltd., Felling, near Newcastle-on-Tyne		11023	Lathes, Felling
Normand A. & Co., Havre, France		—	—
Normandy's Patent Marine Aerated Fresh Water Co., Ltd., Victoria Dock Rd., E.		—	Normandy, London
1 North British Locomotive Co., Ltd., Hyde Park Works, Springburn, Glasgow		822	Loce, Glasgow
Nye Arthur W., 110, Cannon St., E.C.		Bank 8216	Nyrke, London
Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.E.		—	Oakey, London
1 Oeking & Co., Düsseldorf, Germany		689	Stahlocking, Dusseldorf
Olrick L. & Co., Palmerston House, Bishopsgate St., E.C.		—	Olrick, London
Owens S. & Co., Whitefriars, E.C.		—	Owens, London
Parker Foundry Co., Derby		386	Parker, Derby
Parsons C. A., & Co., Heaton Works, Newcastle		1618	Turbo, Newcastle-on-
Parsons C. A., & Co., 66, Victoria St., S.W.		—	Silently, London {Tyne
2 16 Parsons Marine Steam Turbine Co., Ltd., Turbinia Works, Wallsend-on-Tyne		{ Central 220 } Wallsend 93	Turbinia, Wallsend
Partridge & Cooper, Ltd., 191 & 192, Fleet St., and 1 & 2, Chancery Lane, E.C.		{ P.O. Central 11316 } Holborn 25	{ Partridge Cooper, London
Patent Shaft & Axletree Co., Ltd., Wednesbury		6506	Shaft, Wednesbury
Paul James, & Sons, 386, Paisley Rd., Glasgow		—	—
Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton		5	Paul, Dumbarton
Pearn F., & Co., Ltd., West Gorton, Manchester		1021	Pumps, Manchester
1 Peckett & Sons, Atlas Engine Works, Bristol		7306	Peckett, Bristol
1 3 4 16 Peebles Bruce, & Co., Ltd., East Pilton, Edinburgh		4244	Peebles, Edinburgh

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6 Private. 16 Western Union. 19 Universal Mining.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1	Peebles Steam Car Co., Ltd., 25, Victoria St., S.W.	Victoria 987	Peecargo, London
14 16 22	Pels, Henry & Co., 265B, Strand, W.C.	Gerrard 6688	Okraft, London
1 3	Penman & Co., 377, Dalmarock Rd., Glasgow	2544	Penman, Glasgow
	Peters Brothers, 34, Victoria St., S.W.	Westminster 9	Overcomer, London
	Pfeil & Co., 145-9, St. John St., Clerkenwell, E.C.	Holborn 623 & 626	Pfeil, London
	Phoenix Bolt & Nut Co., Handsworth, near Birmingham	2024	Bolts, Birmingham
1	Phoenix Dynamo Mfg. Co., Ltd., Thornbury Works, Bradford	952	Dynamo, Bradford
	Phosphor Bronze Co., Ltd., Sumner St., S.E.	Hop 4557	Phosphor Bronze, London
	Phosphor Bronze Co., Ltd., Birmingham	22	Phosphor, Birmingham
1	Pierson J. & O. G., 47, Rue Lafayette, Paris	117.41	Luna, Paris
1 2	Piggott Thos., & Co., Ltd., Birmingham	86	Atlas, Birmingham
1 2	Piggott Thos., & Co., Ltd., 68, Queen Victoria St., E.C.	—	Intersection, London
1 2 4 5	Pitman Percy, Bosbury, Ledbury, Herefordshire	—	Pitman, Bosbury
	Platt Samuel, Ltd., Wednesbury	5518	Platt, Wednesbury
1	Player W. & J., Birmingham	1402	Method, Birmingham
1	Plenty & Son, Ltd., Newbury, Berkshire	—	Plenty, Newbury
	Pohlig J., Ltd., Cologne, Germany	—	—
6	Pollock, MacNab & Highgate, Shettleston, Glasgow	2743	Highgate, Shettleston
1	Pentliffe & Wood, Ltd., Union Foundry, Derby	50	Zere, Derby
1	Pentliffe & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C.	London Wall 862 Central 519	Penfex, London
	Pott, Cassels & Williamson, Motherwell, nr. Glasgow	Motherwell 22	Pott, Motherwell
1 2 4 } 15 18 }	Power-Gas Corporation, Ltd., 39, Victoria St., S.W.	Gerrard 3072	Tetratomic, London
	Pratt Chuck Co., Frankfort, New York, U.S.A.	—	—
1 25	Pratt F., & Co., Ltd., Machine Tool Works, Halifax	161	Pratt, Halifax
1 4	Pratt & Whitney Co., Hartford, Conn., U.S.A.	332	Pratwhit, Hartford, U.S.A.
1	Premier Gas Engine Co., Ltd., Sandiacre, Nottingham	Long Eaton 39	Premier, Sandiacre
	Price's Patent Candle Co., Ltd., Belmont Works, Battersea, S.W.	Battersea 81	Belmont, London
	Price's Patent Candle Co., Ltd., Bromborough Pool, L'pool	—	Prices, Birkenhead
1	Priestman Bros., Ltd., Holderness Foundry, Hull	81	Priestman, Hull
1	Priestman Bros., Ltd., 3, Laurence Pountney Hill, E.C.	—	Priestman, London
	Proctor James, Burnley, Lancashire	212	Proctor, Burnley
1 2 3 6	Pulsometer Engineering Co., Ltd., 61 and 63, Queen Victoria St., E.C.	Bank 1872	Pulsometer, London
1 2 3 6	Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, Berks	583	Pulsometer, Reading
1 2 4	Ransome A., & Co., Ltd., 63, Queen Victoria St., E.C.	Bank 186	Ransome, London
1 2 4	Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent	6	Ransome, Newark
	Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich	49	Waterside, Ipswich
1 6	Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich	11	Ransomes, Ipswich
1 6	Ransomes, Sims & Jefferies, Ltd., 9, Gracechurch St., E.C.	Avenue 5776	Anglia, London
	Rapid Magnetizing Machine Co., Ltd., 18, The Crescent, Birmingham	1842	Borings, Birmingham
	Reader E., & Sons, Phoenix Works, Nottingham	414	Readers, Nottingham

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15 Atlantic Cable. 16 Western Union. 18 Directory. 22 Staudt & Hundius. 25 Premier.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
4 6	Beavell & Co., Ltd., Ipswich	212	Beavell, Ipswich
	Reddaway F., & Co., Ltd., Pendleton, Manchester	522	Anchorage, Manchester
	Redfern G. F., & Co., 4, South St., Finsbury, E.C.	Central 4492	Invention, London
	Reichwald August, Lombard St., Newcastle-on-Tyne ..	P.O. 699	Reichwald, Newcastle-on-Tyne
	Reichwald August, Finsbury Pavement House, Finsbury Pavement, E.C.	London Wall 2612	Reichwald, London
12	Rennie G., & Co., Thames St., Greenwich	Deptford 50	Probitate, London
1 4	Renshaw W. R., & Co., Ltd., Trustees of, Stoke-on-Trent	(Hanley 58	Renshaws, Stoke-on-Trent
	Rhodes B., & Son, Bow Brass Works, E.	East 3129	Infusion, London
1	Rhodes Electrical Mfg. Co., Ltd., City Electrical Works, Bradford	1454	Rhodique, Bradford
1	Rice & Co. (Leeds) Ltd., Neville Works, Elland Rd., Leeds	2362	Press, Leeds
	Richards Geo., & Co., Ltd., Broadheath, nr. Manchester ..	Altrincham 14	Richards, Altrincham
	Richardson's Engineers' Agency, 65, Imperial Buildings, Ludgate Circus, E.C.	—	
	Richardsons, Westgarth & Co., Ltd., Hartlepool ..	—	Richardsons, Hartlepool
	Rimington Bros., Carlisle	0181	Rimington Bros., Abbey St., Carlisle
	Robey & Co., Ltd., Lincoln	3	Robey, Lincoln
1 2 5 20	Robinson T., & Son, Ltd., Rochdale	62	Robinson, Rochdale
1	Rodger A., & Co., St. Helen's Engine Works, Govan, Glasgow	Govan 32 { Corporation 118	Triple, Glasgow
	Roger Robt., & Co., Ltd., Stockton Iron Foundry, Stockton-on-Tees	{ P.O. 19	Roger, Stockton-on-Tees
	Rogerson J., & Co., Ltd., Wolsingham, R.S.O., Co. Durham	[Durham 58	Steelworks, Wolsingham
1 2 3	Rose, Downs & Thompson, Ltd., Old Foundry, Hull ..	344	Rose, Hull
2	Ross & Duncan, Govan, Glasgow	1510	Whitefield, Glasgow
1	Ross R. G., & Son, Glasgow	2693	Glenros, Glasgow
1 4	Rewland B. R., & Co., Ltd., Climax Wks., Reddish, nr. M'chester	Heaton Moor 47	Heroic, Reddish
	Royce Ltd., Hulme, Manchester	772 & 3562	Switch, Manchester
1	Royles Limited, Irlam, near Manchester	Irlam 8	Elyor, Cadishead
	Russell G., & Co., Ltd., Motherwell, N.B.	4	Russell, Motherwell
1 2 4	Russell James, & Sons, Ltd., Crown Tube Works, Wednesbury	2	Russell, Wednesbury
1 2	Russell John, & Co., Ltd., Alma Tube Works, Walsall ..	6034	Alma, Walsall
1 2 6	Ruston, Procter & Co., Ltd., Sheaf Ironworks, Lincoln ..	56	Ruston, Lincoln
	Ryder Thos., & Son, Turner Bridge Ironworks, Bolton ..	206	Rider, Bolton
	Ryder William, Ltd., 141, Folds Rd., Bolton	55	Beehive, Bolton
	Salmoiraghi A., & C., Milano, Italy	—	
	Salter Bros., Oxford	121	Salter, Oxford
	Salter Geo., & Co., West Bromwich	16	Salters, West Bromwich
	Samuelson & Co., Ltd., Banbury, Oxon	—	Samuelson, Banbury
1 5 19 20	Sandycroft Foundry Co., Ltd., near Chester	Connahs Quay 2	Sandycroft, Hawarden
	Schäfer & Budenberg, Ltd., Whitworth St., Manchester ..	899	Manometer, Manchester
	Schäfer & Budenberg, Ltd., 77A, Queen Victoria St., E.C.	Central 5672	Pyrometer, London
	Schichau F., Engineer, Elbing-Danzig, Prussia	—	
1 2 3	Schram, Harker & Co., Cannon St. House, E.C. ..	Bank 5814	Schram, London

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12 Unicode. 19 Universal Mining. 20 McNeill's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Schwartzkopff Coal-Dust Firing Syndicate, Haydock, near St. Helens		—	Atmosphere, Haydock
1	Scientific Instrument Co., Ltd., Cambridge	6	Instrument, Cambridge
1	Scotch & Irish Oxygen Co., Ltd., Rosehill Works, Glasgow	{ Corporation £ 210 Crosshill 1 }	Oxygen, Glasgow
1	Scott Ernest, & Mountain, Ltd., Close Works, Newcastle-on- Tyne	{ 1259 P.O. 432 }	Eaco, Newcastle-on-Tyne
1	Scott Ernest, & Mountain, Norfolk House, Laurence Pountney Lane, E.C.	Bank 8349	Escamotur, London
1	Scott Geo., & Son (London), Ltd., 44, Christian St., F.	4390	Thirtyfour, London
1	Scott Geo., & Son (London), Ltd., 67, Lord St., Liverpool	5174	Earnest, Liverpool
	Scott Walter, Ltd., Leeds Steel Works, Leeds	—	Bessmer, Leeds
	Scriven & Co., Marsh Lane, Leeds	1819	Scriven, Leeds
1 2 3 4	Selig, Sonnenthal & Co., 85, Queen Victoria St., E.C.	Bank 341	Selig, London
1 2 4	Sellers William, & Co. (Incorp.), Philadelphia, Penn., U.S.A. ..	—	Sellers, Philadelphia
	Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow ..	5	Shanks, Johnstone
	Shannon Limited, Ropemaker St., E.C.	Bank 5246	Exactitude, London
	Sharon Chemical Co., Ltd., Derby	—	Sharon, Derby
1 2 3 4	Shaw L., 39, Victoria St., S.W.	Victoria 1189	
	Sheepbridge Coal & Iron Co., Ltd., Chesterfield	56	Sheepbridge, Chesterfield
	Shelton Iron, Steel and Coal Co., Ltd., Stoke-on-Trent	11	Shelton, Stoke-on-Trent
	Shelton Iron, Steel and Coal Co., Ltd., 122, Cannon St., E.C. {	Bank 1886	Sheltonian, London
	Shore T., & Sons, Albion Foundry, Etruria, Stoke-on-Trent	74	Pumps, Stoke-on-Trent
1	Siebe, Gorman & Co., Ltd., Neptune Works, S.E.	Hop 251	Siebe, London
11	Simons W., & Co., Ltd., Renfrew, Scotland	3	Simons, Renfrew
	Simpson & Co., Barrow-in-Furness	—	
1 3	Simpson, Strickland & Co., Ltd., Dartmouth, S. Devon	—	Engineers, Dartmouth
1	Sinclair George, Albion Boiler Works, Leith, N.B.	537	Sinclair, Leith
	Smedley Bros., Ltd., Belper, Derbyshire	512	Smedleys, Belper
	Smit L., & Zoon, Kinderdijk, near Rotterdam, Holland	—	Smit-Zoon, Kinderdijk
	Smith A. & W., & Co., Ltd., Eglinton Engine Works, Glasgow ..	1544	Engine, Glasgow
	Smith Archibald, & Stevens, Janus Works, Queen's Rd., Battersea, S.W.	Battersea 115	Hydraulics, London
1	Smith Bros. & Co., Hyson Green Works, Nottingham	1516	Hyson, Nottingham
1	Smith & Coventry, Ltd., Gresley Ironworks, Ordsal Lane, Manchester	564	Gresley, Manchester
	Smith Daniel, & Co., Raglan St., Wolverhampton	210	Presses, Wolverhampton
	Smith G. F., Ltd., Paragon Ironworks, Halifax, England	715	Radial, Halifax
	Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston	—	Grace, Thrapston [ton
	Smith John, & Co., Grove Ironworks, Carshalton, Surrey	Sutton 56	Smith, Engineer, Carshal-
	Smith S., & Son, Ltd., 9, Strand, W.C.	Central 1939	Smith, 9, Strand, London
1 3	Smith Sydney, & Sons, Basford Brass Works, Nottingham	1537	Smiths, Nottingham
1	Smith Thos., & Sons, of Salfley, Ltd., Salfley Mill, Birmingham ..	314 & 3874	Hammers, Birmingham
6 7	Smith Thos., & Sons, Steam & Electric Crane Works, Rodley, near Leeds	2018	Smith, Rodley
1	Smooth-on Manufacturing Co., Jersey City, N.J., U.S.A.	{ Bergen 804 U.S.A. }	Smooth-on, Jersey City, U.S.A.
1 16	Smulders A. F., Schiedam, Rotterdam, Holland	2045	Asmulders, Schiedam
1 4	Snowdon, Sons & Co., Ltd., Millwall, E.	Eastern 127	Snowdrift, London

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6 Private. 7 Sell's. 11 Scott's. 16 Western Union.

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1 Spagnoletti J. E., & Co., Goldhawk Works, Goldhawk Rd., W. Hannersmith 181		Isobar, London
Spencer John, & Sons, Ltd., Newburn Steel Works, Newcastle- on-Tyne }	—	{ Newburn, Newcastle-on- Tyne
Spencer John, & Sons, Ltd., Ouseburn Wks., Newcastle-on-Tyne	—	Tyne, Newcastle-on-Tyne
Spencer John, & Sons, Ltd., 32, Victoria St., Westminster, S.W.	—	Newburn, London
Spezialwerk Thost'scher Feuerungs-Anlagen, Ltd., } Zwickau, Saxony }	97	{ Feuerungsbureau Zwick- ausachsen, Saxony
Stableford & Co., Ltd., Coalville Birmingham 591		Stableford, Coalville
1 4 Stacey Frank, & Co., Winchester House, Birmingham 3239		Paratus, Birmingham
2 Stamm W., 25, College Hill, E.C. Bank 5483		Pyxor, London
Standard Piston Ring and Engineering Co., Ltd., Premier Works, Wentworth St., Sheffield 2149		Ocean, Sheffield
6 Stanley W. F., & Co., Ltd., 286, High Holborn, W.C. Holborn 188		Turnstile, London
6 Stanley W. F., & Co., Ltd., Railway Approach, London Bdge., S.E. (Hop 871		Tribrach, London
Star Brass Mfg. Co., 28, New Bridge St., E.C. Central 12,455		Temperature, London
Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester 1645		Seafeld, Manchester
1 2 3 Steel Company of Scotland, 23, Royal Exchange Sq., Glasgow 773		Steel, Glasgow
Stein John G., & Co., Silica and Firebrick Works, Castlecary, near Glasgow Denny Exchange 6A		Stein, Castlecary
1 Stephenson Robert, & Co., Ltd., Darlington 200		Rocket, Darlington
1 Stern-Sonneborn Oil Co., 57, Gracechurch St., E.C. Avenue 2888		Centumvir, London
1 Sterne L., & Co., Ltd., Crown Ironworks, Glasgow 624		Crown, Glasgow
1 Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C. Gerrard 1989		Elsterne, London
Steven & Struthers, Brassfounders, Glasgow 3133		Bronze, Glasgow
1 2 3 Stewart D., & Co. (1902), Ltd., London Road Iron- works, Glasgow { Bridgeton 2825 } Corporation Y 271		Stewart, Glasgow
1 3 5 Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow 651		Lapweld, Glasgow
1 3 5 Stewarts & Lloyds, Ltd., Nile St., Birmingham 282		Lloyds, Birmingham
1 Stirling Boiler Co., Ltd., Motherwell, Scotland 1256		Stirlinico, Motherwell
4 Storey Isaac, & Sons, Ltd., Empress Foundry, Manchester 1477		Stork, Manchester
Stothert & Pitt, Ltd., Bath 139		Stothert, Bath
Stothert & Pitt, Ltd., 53, Victoria St., S.W. —		Stothert, London
Stott S. S., & Co., Haslingden, near Manchester 3		Elevator, Haslingden
Starvant Engineering Co., Ltd., 147, Queen Victoria St., E.C. Bank 1509		Crosby, London
1 2 16 Sulzer Bros., 34, Norfolk St., W.C. Gerrard 4268		Gobsulzer, London
Summerscales W., & Sons, Ltd., Phoenix Foundry, Keighley 7292		Phoenix, Keighley
1 Summerson Thos., & Sons, Ltd., Darlington 11		Summerson, Darlington
2 Sun Fan Co., Ltd., Longside Lane, Bradford 1587		Fan, Bradford
Sun Fire Office, 63, Threadneedle St., E.C. —		
16 Sun Gas Co., Ltd., 15, Tothill St., Broadway, Westminster, S.W. Westminster 221		Shinerous, London
4 Tangye Tool & Electric Co., Ltd., Oxford Wks, Birmingham Smethwick 85		Argon, Birmingham
6 Tangyes Ltd., Cornwall Works, Birmingham 1260		Tangyes, Birmingham
6 Tangyes Ltd., 35, Queen Victoria St., E.C. Bank 1625		Tangyes, London
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6 Private. 16 Western Union.		

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Tannett Walker & Co., Ltd., Leeds				—	Tannett Walker, Leeds
1	Tatzel Ed., Troppau, Austria			52	Maschintatzel, Troppau, Austria
1	Taylor & Challen, Ltd., Derwent Foundry, Birmingham ..			2244	Derwent, Birmingham
	Taylor Charles, Bartholomew St., Birmingham			401	Lathes, Birmingham
1 6	Taylor & Hubbard, Leicester			575	Lifting, Leicester
	Taylor's Patent Shunting Lever, Ltd., 29, Regent St., S.W.			—	Switches, London
	Tees Side Bridge & Engineering Works, Ltd., Middlesbro'				
	Middlesbrough 21				Teesside, Middlesbrough
1	Temperley Transporter Co., 72, Bishopsgate St. Within, E.O.			Avenue 2658	Transmo, London
	Thermit Ltd., 27, Martin's Lane, Cannon St., E.C. ..			Central 3749	Fulmen, London
	Thompson John, Wolverhampton			19	Boiler, Wolverhampton
	Thomson W. R. M., & Co., 96, Buchanan St., Glasgow ..			829	Inventions, Glasgow
	Thornton A. G., Paragon Works, King St. West, Manchester ..			3273	Drawing, Manchester
1 2 3	Thornycroft J. I., & Co., Ltd., Church Wharf, Chiswick, W.				
	Hammersmith 6				Thornycroft, London
1 2 3	Thornycroft J. I., & Co., Ltd., Hogarth Lane, Chiswick				
	Hammersmith 222				Manageable, London
1 2 3	Thornycroft J. I., & Co., Ltd., Basingstoke, Hants			9	Manageable, Basingstoke
1 2 3	Thornycroft J. I., & Co., Ltd., Woolston, Southampton ..			415	Thornycroft, Southampton
1 2 3	Thwaites Bros., Ltd., Bradford, Yorkshire			325	Thwaites, Bradford
	Tilghman's Patent Sand Blast Co., Ltd., Broadheath, near Manchester			Altrincham 14	Tilghmans, Altrincham
	Tomey Joseph, & Sons, Ltd., Manor Glass Wks., Aston, Birmingham			—	Tomey, Aston, Birmingham [Tyne]
	Toward T., & Co., 8, St. Lawrence, Newcastle-on-Tyne			515	Towards, Newcastle-on-
	Treasure J. B., & Co., 8, Vauxhall Rd., Liverpool			1529	Treasure, Liverpool
1 13	Trewent F. J., 43, Billiter Buildings, Billiter St., E.C. ..			Avenue 11121	Trewent, London
	Trier Bros., 1, Great George St., Westminster, S.W. {G.P.O. Victoria 900				Viscosity, London
4 16	Trussed Concrete Steel Co. of England, 11, Tothill St., S.W.			Victoria 1296	Kahncrete, London
	Tubes Ltd., Birmingham			2582	Cylinders, Birmingham
	Tuck & Co., Ltd., 116, Cannon St., E.C.			Bank 15083	Tucks, London
	Tuck & Co., Ltd., 13, Aston's Quay, Dublin			575	Tucks, Dublin
	Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow ..			—	Tullis, Clydebank
	Tullis D. & J., 1, Southwark Bridge Buildings, S.E.			—	Kilbowie, London
1 2	Tullis John, & Son, Ltd., St. Ann's Leather Works, Glasgow			2520	Tullis, Glasgow
1 16	Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow			1270	Valve, Bishopbriggs
1 3 6	Turner E. R. & F., Ltd., 82, Mark Lane, E.O.			—	Canvassers, London
1 3 6	Turner E. R. & F., Ltd. (182), Ipswich			24	Gippeawyk, Ipswich
	Turton T., & Sons, Ltd., Sheaf Works, Sheffield			1062	Turtons, Sheffield
4 6	Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C.			Bank 5051	Horsepower, London
4 6	Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester			51 & 4452	Strength, Manchester
1	Underfeed Stoker Co., Ltd., Coventry House, South Place, E.C.			Bank 6079	Underfeed, London

Telegraphic Codes in use: 1 A.B.C. 2 A.I. 3 Engineering. 4 Lieber's. 5 Morse's. 6 Private. 13 Watkins'. 16 Western Union.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd., 14, Cook St., Liverpool		1030	Isham, Liverpool
United States Metallic Packing Co., Ltd., Soho Works, Thornton Rd., Bradford..		604	Metallic, Bradford
Universal Tube Co., Ltd., Chesterfield ..		61	Tubes, Chesterfield
Urquhart, Lindsay & Co., Ltd., Blackness Foundry, Dundee		810	Engineers, Dundee
1 2 Vacuum Brake Co., Ltd., 32, Queen Victoria St., E.C.		Bank 5534	Solution, London
Valor Co., Ltd., Rocky Lane, Aston Cross, Birmingham		1653	Valor, Birmingham
Vaughan & Son, 57, Chancery Lane, W.C.		—	
Vaughton Bros., Livery St., Birmingham ..		05055	
1 2 Vauxhall & West Hydraulic Engineering Co., Ltd., 45, Leadenhall St., E.C.		Avenue 800	Vaporiform, London
1 4 16 Veithardt & Hall, Ltd., 41, Eastcheap, E.C.		Avenue 492	Virgolina, London
Vereinigte Servais-Werke A.G., Ehrang bei Trier, Germany		—	
1 Veritys, 31 & 32, King St., W.C.		Gerrard 6863 & 6864	Verity, London
Vernon & Guest, Soho, Smethwick, near Birmingham		[Smethwick 121	Vernon Guest, Soho, Smethwick
2 Vickers Sons & Maxim, Ltd., River Don Works, Sheffield ..		308	Vickers, Sheffield
2 Vickers Sons & Maxim, Ltd., 28, Victoria St., S.W.		—	Vickers, London
1 Vesper & Co., Ltd., Broad St., Portsmouth ..		589	Repsov, Portsmouth
Valeau Boiler and General Insurance Co., Ltd., 87, King St., Manchester ..		1188	Boiler, Manchester
1 2 5 Walker Brothers (Wigan), Ltd., Pagefield Ironworks, Wigan		14	Pagefield, Wigan
Walker James, & Co., Lion Works, Garford St., Poplar, E.		Eastern 3084	Lioncelle, London
Wallwork Henry, & Co., Ltd., Manchester ..		567 & 5200	Foundry, Manchester
Ward H. W., & Co., Lionel St., Birmingham ..		1469	Tudor, Birmingham
Ward, Haggas & Smith, Keighley ..		154	
Ward T. W., Ltd., Albion Works, Sheffield ..		—	Forward, Sheffield
4 Warden A., & Co., 60, Great Eastern St., E.C.		Central 7836	Lytetstrong, London
Warner Robert, & Co., 87, Queen Victoria St., E.C.		P.O. Central 8154	Hydrological, London
Warner Robert, & Co., Walton-on-the-Naze ..		—	Foundry, Walton-on-Naze
Watkins Stephen, Son & Gro es, 75, Chancery Lane, W.C.		[Holborn 2136	
1 2 Watson Henry, & Sons, High Bridge Works, Newcastle-on-Tyne ..		517 & 1166 } P.O. 5 }	Watsons, Newcastle
1 2 3 4 16 Watson, Laidlaw & Co., Glasgow ..		1700	Fugal, Glasgow
Waygood & Co., Ltd., Falmouth Rd., S.E.		Hop 790	Waygood, London
Webb, Pect & Co., Westgate Iron Works, Gloucester ..		85	Pulleys, Gloucester
1 Webb & Son, Combe Tannery, Stowmarket ..		—	Webb, Combe
11 Weir G. & J., Ltd., Holm Foundry, Oathcart, Glasgow ..		3223	Giweir, Glasgow
Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham		275	Weldless, Birmingham
1 Wells A. C., & Co., 103, Midland Rd., St. Pancras, N.W.		[King's Cross 341	Unbreakable, London
1 Wells A. C., & Co., Carnarvon St., Cheetham, Manchester ..		1244	Unbreakable, Manchester
Westinghouse Brake Co., 82, York Rd., King's Cross, N.		King's Cross 620	Westinghouse, London
1 Weston Electrical Instrument Co., Audrey House, Ely Place, Holborn, E.C.		Holborn 2029	Pivoted, London

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 11 Scott's. 16 Western Union.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 6 Wheeler Condenser & Engineering Co., Ltd. , 2 & 3,		
Norfolk St., Strand, W.C.	Gerrard 6889	Suspend, London
Whitaker Bros., Ltd. , Horsforth, near Leeds	2321	Quarries, Leeds
Whittaker C., & Co., Ltd. , Accrington	55	Bricks, Accrington
Whittaker & Co. , White Hart St., Paternoster Square, E.C. . .	—	
Wicksteed Charles, & Co. , Lawson St., Kettering	103	Wicksteed, Kettering
Widdowson John H. , Ordsall Lane, Salford, Manchester . .	—	Taps, Salford
Wiggins F., & Sons , 102 & 183, Minorics, E.	Avenue 2248	Wiggins, Minorics, London
1 Wildman & Meguyer, Ltd. , Sand Pits Enamel Works,		
Birmingham	1768	Alphabet, Birmingham
1 2 3 6 Willans & Robinson, Ltd. , Rugby, Warwickshire	37	Willans, Rugby
1 Willecox W. H., & Co., Ltd. , 23, Southwark St., S.E. . . .	Hop 740	Willecox, Southwark St.,
Willesden Paper & Canvas Works , Willesden Junction, N.W.	—	(London)
Williams J. Arthur , 92, Hatton Garden, E.C.	Holborn 55	Volder, London
Williams Samuel, & Sons, Ltd. , 36, Lime St., E.C. . . .	Avenue 375	Inbarge, London
2 20 Wilson Alex. , 3, Lombard Court, E.C.	P.O. Central 1998	Ingenieur, London
1 Wilson John H., & Co., Ltd. , Sandhills, Liverpool	Bootle 4	Engineers, Liverpool
1 Wilson John H., & Co., Ltd. , 15, Victoria St., S.W. . . .	Westminster 73	Drague, London
Wilsons & Union Tube Co., Ltd. , 5, Wellington St., Glasgow Argyle 53 & 717	Central 3186	Piping, Glasgow
Winter F. , 8, Redcross St., E.C.	Avenue 4104	Instantly, London
1 2 Witty & Wyatt, Ltd. , 88, Leadenhall St., E.C.	Avenue 4104	Witwy, London
1 4 Wood B. D., & Co. , Philadelphia, U.S.A.	1935	Tuckahoe, Philadelphia
1 Woodite Works , Mitcham Common, Surrey	—	Woodite, Mitcham
2 4 Worthington Pump Co., Ltd. , 153, Queen Victoria St., E.C. Bank 631 & 614	631 & 614	Pumping, London
2 Woulham Cement Co. (1900), Ltd. , 35, Gt. St. Helen's, E.C.		
Wright Howard T., Bros., Ltd. , 72, Victoria St., S.W. (Westminster 281	Avenue 1846	Enriching, London
1 Wright J. & E., Ltd. , Universe Works, Birmingham	707	Heaterite, London
6 Wright Jos., & Co. , Tipton, Staffordshire	—	Universe, Birmingham
Wrigley, E. G., & Co., Ltd. , Foundry Lane Works, Soho, Bir- mingham	Smethwick 108	Wright, Tipton
Wynn, Timmins & Co., Ltd. , Century Works, Commercial St., Birmingham	630	Cutters, Birmingham
Century, Birmingham		
3 Yarrow & Co., Ltd. , Isle of Dogs, Poplar, E.	Eastern 114	Yarrow, London
1 2 Yorkshire Patent Steam Wagon Co. , Pepper Rd., Hunslet, Leeds	1874	Motor, Leeds
4 25 Youngs , Ryland St. Works, Birmingham	808	Oldens, Birmingham
1 2 4 Zadig C. A., & Co. , 73, Queen Victoria St., E.C.	P.O. Central 776	Zadig, London

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6 Private. 20 McNeill's. 25 Premier.

KEY TO TELEGRAPHIC ADDRESSES.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Abbot, Gateshead	Abbot John, & Co., Ltd., Park Works, Gateshead-on-Tyne
Abbott, Newark	Abbott & Co. (Newark), Ltd., Newark-on-Trent
Abyssinian, London	Lo Grand & Sutcliffe, 125, Bunhill Row, E.C.
Accumulator, London	Drake & Gorham, Ltd., 66, Victoria St., Westminster, S.W.
Adamantos, London	Hudson John, & Co.'s Successors, 4, Victoria Warehouses, Mansell St., E.
Adaptable, Glasgow	Glasgow Electric Crane & Hoist Co., Ltd., Parkhead, Glasgow
Adopted, London	Grover & Co., Ltd., Wharf Rd., City Rd., N.
Afoo, Glasgow	Anderston Foundry Co., Ltd., Glasgow
Ahlers, Whitleybay	Ahlers Ad., Whitley Bay, Newcastle-on-Tyne [W.C.]
Aimstraight, London	Morris-Hawkins Electrical Co., Ltd., 17, Charing Cross Rd.,
Aldays, Birmingham	Aldays & Onions Pneumatic Engineering Co., Ltd., Birmingham
Allen, Sheffield	Allen Edgar, & Co., Ltd., Imperial Steel Works, Sheffield
Alley, Glasgow	Alley & Maclellan, Ltd., Sentinel Works, Glasgow
Alma, Walsall	Russell John, & Co., Ltd., Alma Tube Works, Walsall
Aloyan, London	Atlas Metal & Alloys Co., Ltd., 62, Queen Victoria St., E.C.
Alphabet, Birmingham	Wildman & Meguyer, Ltd., Sand Pits Enamel Wks., Birmingham
Anchorage, Manchester	Reddaway F., & Co., Ltd., Pendleton, Manchester
Andrew, Reddish	Andrew J. E. H., & Co., Ltd., Reddish, near Stockport
Andrews, St. James St., Sheffield	Andrews Thomas, & Co., St. James St., Sheffield
Anglia, London	Ransomes, Sims, & Jefferies, Ltd., 9, Gracechurch St., E.O.
Angus, Newcastle-on-Tyne	Angus Geo., & Co., Ltd., St. John's Works, Newcastle-on-Tyne
Archdale, Birmingham	Archdale Jas., & Co., Ltd., Ledsam St., Birmingham
Arc, Taunton	Newtons, Ltd., Taunton
Argon, Birmingham	Tangye Tool & Electric Co., Ltd., Oxford Works, Birmingham
Armstrongs, Birmingham	Armstrong, Stevens & Son, Whittall St., Birmingham
Asbestos, London	Asbestos Co., Ltd. (The United), Dock House, Billiter St., E.C.
Asmolders, Schiedam	Smulders A. F., Schiedam, Rotterdam, Holland
Ashton, Sheffield	Ashton Thomas A., Ltd., Sheffield
Askham, Sheffield	Askham Bros. & Wilson, Ltd., Sheffield
Asteroidal, London	British Thomson-Houston Co., Ltd., 83, Cannon St., E.C.
Atlas, Birmingham	Piggett Thos., & Co., Ltd., Birmingham
Atlas, Gloucester	Fielding & Platt, Ltd., Gloucester
Atlas, Sheffield	Brown John, & Co., Ltd., Sheffield [St. Helens]
Atmosphere, Haydock	Schwartzkopf Coal-Dust Firing Syndicate, Haydock, near
Aveling, Rochester	Aveling & Porter, Ltd., Rochester

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Babcock, London	Babcock & Wilcox, Ltd., Oriel House, Farringdon St., E.C.
Bagnall, Stafford	Bagnall W. G., Ltd., Castle Engine Works, Stafford
Bags, Hednesford	Bumsted & Chandler, Cannock Chase Engine Works, Hednesford,
Bagshaw, Batley	Bagshaw J., & Sons, Ltd., Batley, Yorkshire Staffs.
Baldwin, Philadelphia ..	Burnham, Williams & Co., Philadelphia, U.S.A.
Barclayson, Kilmarnock ..	Barclay Andrew, Sons, & Co., Ltd., Caledonian Works, Kilmarnock
Battery, Selly Oak	Birmingham Battery & Metal Co., Ltd., Birmingham
Bayley, Sheffield	Brown, Bayley's Steel Works, Ltd., Sheffield
Bayliss, Wolverhampton ..	Bayliss, Jones & Bayliss, Ltd., Victoria Works, Wolverhampton
Beacon, Salford	Bailey W. H. & Co., Ltd., Albion Works, Salford, Manchester
Beardmore, Glasgow	Beardmore William, & Co., Ltd., Parkhead Forge, Rolling Mills, and Steel Works, Glasgow
Beardshaw, Sheffield	Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield
Beaucoup, London	Glacier Anti-Friction Metal Co., Ltd., 91, Queen Victoria St. E.C.
Beehive, Bolton	Ryder William, Ltd., 141, Folds Rd., Bolton
Belfry, London	Asbestos Co., Ltd. (Bell's), 59½, Southwark St., S.E.
Bellamy, London	Bellamy John, Ltd., Millwall, E.
Belliss, Birmingham	Belliss & Morcom Ltd., Ledsam St. Works, Birmingham
Belmont, London	Preece's Patent Candle Co., Ltd., Battersea, S.W.
Belting, Edinburgh	Gilmour W. & O., St. John's Hill, Edinburgh
Bennis, Little Hulton, Bolton	Bennis Ed., & Co., Ltd., Little Hulton, Bolton
Benrather, London	Benrath Engineering Co., 36, Victoria St., S.W.
Berry, Sowerby Bridge ..	Berry F., & Son, Sowerby Bridge, Yorkshire
Bertram, Edinburgh	Bertrams Ltd., St. Katherine's Works, Sciennes, Edinburgh
Bessemer, Leeds	Scott Walter, Ltd., Leeds Steel Works, Leeds
Bessemer, Sheffield	Bessemer Henry, & Co., Ltd., Sheffield
Bird, London	Bolling & Lowe, 2, Laurence Pountney Hill, E.C.
Blackburn, Nottingham ..	Blackburn, Starling & Co., Ltd., Gresham Works, Nottingham
Blackstones, Stamford ..	Blackstone & Co., Ltd., Rutland Works, Stamford
Blazon, Glasgow	Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow
Bleichert, Leipzig	Bleichert Adolf, & Co., Leipzig-Gohlis 54
Bodley, Exeter	Bodley Bros. & Co., Old Quay Foundry, Exeter
Boiler, Church	Anderton & Sons, Antley Boiler Works, Accrington
Boiler, Manchester	Vulcan Boiler & General Insurance Co., Ltd., 67, King St., [Manchester
Boiler, Wolverhampton ..	Thompson John, Wolverhampton
Boilers, Halifax	Hartley & Sugden, Ltd., Halifax
Boilers, Loughborough ..	Coltman Walter W., & Co., Central Boiler Works, Loughborough
Bolta, Birmingham	Phoenix Bolt & Nut Co., Handsworth, near Birmingham
Bonaccord, Glasgow	Drysdale & Co., Bon Accord Engine Works, Glasgow
Borings, Birmingham	Rapid Magnetizing Machine Co., Ltd., 18, The Crescent, Birmingham
Borsig, Tegel	Borsig A., Berlin-Tegel
Brake, Manchester	Gresham & Craven, Ltd., Salford, Manchester
Brazon, Liverpool	Marsden John, & Son, 188, Regent Rd., Liverpool
Breaker, Leicester	Mason Bros., Brandon St., Leicester [Westminster, S.W.
Brickpress, London	Brightside Foundry & Engineering Co., Ltd., 28, Victoria St.
Bricks, Accrington	Whittaker C., & Co., Ltd., Accrington
Bridge, Motherwell	Motherwell Bridge Co., Ltd., Motherwell, N.B.
Britannia, Colchester	Britannia Engineering Co., Ltd., Colchester
Broadbent, Huddersfield ..	Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield
Bronze, Glasgow	Steven & Struthers, Brassfounders, Glasgow
Bronze, Longport	Billington & Newton, Longport, Stoke-on-Trent
Brotherhood, London	Brotherhood Peter, Belvedere Rd., Lambeth, S.E.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Brownhoist, Cleveland, U.S.A.	Brown Hoisting Machinery Co. , Cleveland, Ohio, U.S.A.
Bucenia, London	Boby William , Salisbury House, London Wall, E.C.
Bucktons, Leeds	Buckton Joshua, & Co., Ltd. , Leeds
Buffaloes, London	Buffalo Forge Co. , 39, Victoria St., S.W.
Bullivants, London	Bullivant & Co., Ltd. , 72, Mark Lane, E.C.
Burnet, Glasgow	Burnet Lindsay, & Co. , Moor Park Boiler Works, Govan, Glasgow
Burrell, Thetford	Burrell Chas., & Sons, Ltd. , St. Nicholas Works, Thetford, Norfolk
Butler, Halifax, England ..	Butler J., & Co. , Victoria Ironworks, Halifax
Butters, Glasgow	Butters Bros. & Co. , 20, Waterloo St., Glasgow
Calidad, Glasgow	McKie & Baxter , Copland Works, Govan, Glasgow
California, Stoke-on-Trent ..	Kerr, Stuart & Co., Ltd. , Stoke-on-Trent
Cangas, Halifax	Campbell Gas Engine Co., Ltd. , Halifax, England
Cammell, Sheffield	Cammell Laird & Co. Ltd. , Cyclops Steel and Iron Works, Sheffield
Canvassers, London	Turner E. B. & F., Ltd. , 82, Mark Lane, E.C.
Carborundum, London	Carborundum Co. , 27, Chancery Lane, W.C.
Cartoons, London	Cook Robt. J., & Hammond , 2 & 3, Tothill St., Westminster, S.W.
Carver, Nottingham	Carver C. F., Ltd. , Alfred St. Mills, Nottingham
Castings, Bradford	Haley E. & W. H. , Lister Hills, Bradford
Caulking, London	Consolidated Pneumatic Tool Co., Ltd. , Palace Chambers, 9, Bridge St., Westminster, S.W.
Centrifuge, Newcastle-on-Tyne	Capell Fan Co. , 13, Mosley St., Newcastle-on-Tyne
Centumvir, London	Stern-Sonneborn Oil Co. , 57, Gracechurch St., E.C.
Century, Birmingham	Wynn, Timmins & Co., Ltd. , Commercial St., Birmingham
Chadburn, Liverpool	Chadburn's (Ship) Telegraph Co. , 11, Waterloo Rd., Liverpool
Chaplin, Glasgow	Chaplin Alex., & Co. , Govan, Glasgow
Chatwin, Birmingham	Chatwin Thos. , Great Tindal St., Birmingham
Cheaper, London	Harvey G. A., & Co. , Lewisham, S.E.
Chemical, Washington Station ..	Magnesia Coverings Co., Ltd. , Washington Station, Co. Durham
Cherry, Beverley	Cherry John, & Sons , Pump Works, Beverley, Yorks.
Chuck, Leicester	Jones A. A., Pollard & Shipman, Ltd. , East Park Rd., Leicester
Cleavage, London	Becker R., & Co. , 53, City Road, E.C.
Cleveland, Darlington	Cleveland Bridge & Engineering Co., Ltd. , Darlington
Cochrane, Barrhead	Cochrane John, Barrhead , N.R.
Coles, Derby	Coles H. J. , London Crane Works, Derby
Colville, London	Colville David, & Sons, Ltd. , 54, Old Broad St., E.C. [Glasgow]
Colville, Motherwell	Colville David, & Sons, Ltd. , Dalzell Steel & Iron Wks., Motherwell, nr.
Compactum, London	Kirkaldy John, Ltd. , 101, Leadenhall St., E.C.
Conical, Glasgow	Lindsay R. B., & Co. , 31, Mair St., Plantation, Glasgow
Consulting, Philadelphia	Melville & Macalpine , 615, Walnut St., Philadelphia, Pa., U.S.A.
Conveyor, Accrington	Conveyor & Elevator Co. , Accrington, Lancashire
Cook, Glasgow	Crow, Harvey & Co. , Park Grove Iron Works, Glasgow
Copper Co., London	Broughton Copper Co., Ltd. , London
Copper Co., Manchester	Broughton Copper Co., Ltd. , Manchester [South Shields]
Corrugate, Tyne Dock	Newton & Nicholson , Tyne Dock Corrugated Packing Works,
Corrugated, Glasgow	Clyde Structural Iron Co., Ltd. , Clydeside Ironworks, Scotstoun,
Countable, London	Howard Bros. , 1108, Queen Victoria St., E.C. [Glasgow]
Coupling, Castleton, Manchester	Bridge D., & Co. , Engineering Works, Castleton, near Manchester
Courteous, London	Braby Fredk., & Co. , Fitzroy Works, 352 to 362, Euston Rd., N.W.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Cowlishaw, Etruria, Stoke-on-Trent	Cowlishaw, Walker & Co., Ltd., Etruria, Stoke-on-Trent
Craddock, Wakefield	Craddock Geo., & Co., Wire Rope Works, Wakefield
Craig-Donald, Johnstone	Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.
Craig, Paisley	Craig A. F., & Co., Ltd., Paisley
Cranes, Rodley	Booth Joseph, & Bros., Rodley, Leeds
Craven, Wakefield	Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield
Cromil, Newcastle-on-Tyne	Crosier, Stephens & Co., 2, Collingwood St., Newcastle-on-Tyne
Crompton, Chelmsford	Crompton & Co., Ltd., Arc Works, Chelmsford
Crompton, London	Crompton & Co., Ltd., Salisbury House, London Wall, E.C.
Crosby, London	Crosby Steam Gage & Valve Co., 147, Queen Victoria St., E.C.
Crosby, London	Sturtevant Engineering Co., Ltd., 147, Queen Victoria St., E.C.
Crossley, Openshaw	Crossley Bros., Ltd., Openshaw, Manchester
Crown, Glasgow	Sterne L. & Co., Ltd., Crown Ironworks, Glasgow [Manchester
Crown, Gortonbrook	Higginbottom & Mannoek, Ltd., Crown Ironworks, West Gorton,
Cruzeiro, Preston	Caledonian Engineering & Shipbuilding Co., Preston, Lancashire
Cryelite, London	British Aluminium Co., Ltd., 9, Victoria St., Westminster, S.W.
Cubitt, London	Cubitt William, & Co., 258, Gray's Inn Rd., W.C.
Cutters, Birmingham	Wrigley E. G., & Co., Ltd., Foundry Lane Works, Soho, Birmingham
Cyclone, Swinton, Manchester	Matthews & Yates, Ltd., Cyclone Works, Swinton, Manchester
Cyclops, Gateshead	Clarke, Chapman & Co., Ltd., Gateshead-upon-Tyne
Cylinders, Birmingham	Tubes Ltd., Birmingham
Daniell, Birmingham	Daniell S. A., Ltd., Lion Works, Birmingham
Daniels, Stroud	Daniels T. H. & J., Ltd., Stroud, Glos.
Day Summers, Southampton	Day, Summers & Co., Ltd., Northam Ironworks, Southampton
Dazzle, Manchester	Donovan & Co., Ltd., Broughton Bridge Iron Works, Salford
Debergue, Manchester	De Bergue & Co., Ltd., Strangeways Iron Works, Manchester
Dellburn, Motherwell	Marshall, Fleming & Jack, Motherwell, N.B.
Delta, London	Delta Metal Co., Ltd., East Greenwich, S.E.
Democracy, London	Beardshaw J., & Son, Ltd., 181, Bridgehouse, Queen Victoria St., E.C.
Dempster, Glasgow	Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow
Derwent, Birmingham	Taylor & Challen, Ltd., Derwent Foundry, Birmingham [Leeds
Destructor, Leeds	Horsfall Destructor Co., Ltd., Station Sheds, Holbeck, near
Destructor, London	Horsfall Destructor Co., Ltd., 19, Old Queen St., S.W.
Detonator, London	New Explosives Co., Ltd., 62, London Wall, E.C.
Dewhurst, Attercliffe Road, Sheffield	Dewhurst's Engineering Co., Ltd., Sheffield
Diagram, Liverpool	Hughes & Lancaster, Liverpool
Diameter, Manchester	Mitchell's Emery Wheel Co., Mill St., Bradford, Manchester
Dicker, London	Dick, Kerr & Co., Ltd., Abchurch Yard, Cannon St., E.C.
Dieselben, London	Diesel Engine Co., Ltd., 179, Queen Victoria St., E.C. [ster, S.W.
Distend, London	New Expanded Metal Co., Ltd., York Mansion, York St., Westmin-
Donald, Paisley	Hanna, Donald & Wilson, Abercorn Foundry, Paisley
Donkin, Chesterfield	Bryan Donkin Company, The, Ltd., Chesterfield
Douglas, Kirkcaldy	Douglas & Grant, Dunnikier Foundry, Kirkcaldy, N.B.
Doulton, London	Doulton & Co., Ltd., Lambeth
Drague, London	Wilson John H., & Co., Ltd., 15, Victoria St., Westminster, S.W.
Drawing, Manchester	Thornton A. G., Paragon Works, King St. West, Manchester
Dredger, Port Glasgow	Ferguson Brothers, Newark Works, Port Glasgow, N.B.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Drehstrom, London	Lahmeyer Electrical Co., Ltd. , 109-111, New Oxford St., W.C.
Driftpiece, London	Lane J. J., Ltd. , Phoenix Engine Works, Cranbrook St., Old Ford, E.
Dynamo, Bradford	Phoenix Dynamo Mfg. Co., Ltd. , Thornbury Works, Bradford
Dynamo, Oldham	Hall J. P., & Co. , Oldham
Earnest, Liverpool	Scott Geo., & Sons (London), Ltd. , 67, Lord St., Liverpool
Eastwald, Taunton	Easton & Bessemer, Ltd. , Taunton
Edmeston, Patricroft	Edmeston A., & Sons , Patricroft, near Manchester
Efficiency, London	Leroy F., & Co. , 20, Gray St., Commercial Rd., E. [irmingham
Elastic, Birmingham	Dunlop Rubber Co., Ltd. , Manor Mills, Salford St., Aston, Bir-
Elevator, Haslingden	Stott S. S., & Co. , Haslingden, near Manchester [Dock, Liverpool
Eliminator, Liverpool ..	Liverpool Engineering & Condenser Co., Ltd. , Brunswick
Elivas, Sheffield	Baker Blower Engineering Co. , Stanley St., Wicker, Sheffield
Elliot Company, Cardiff ..	Elliot George, & Co., Ltd. , Cardiff
Elliot Company, London ..	Elliot George, & Co., Ltd. , 16, Great George St., Westminster, S.W.
Elmores, Schladern, Germany	Elmore's Metall A.G. , Schladern, Seig., Germany
Elsterne, London	Sterne L., & Co., Ltd. , Donington House, Norfolk St., W.C.
Elyor, Cadishead	Royles Limited , Irlam, near Manchester
Emery, London	Davies W. J., & Sons , 109, Weston St., S.E.
Emery, Altrincham	Luke & Spencer, Ltd. , Broadheath, near Manchester [ster, S.W.
Emkenco, London	English McKenna Process Co., Ltd. , York Mansion, Westmin-
Empireste, London	Empire Roller Bearings Co., Ltd. , 15, Victoria St., S.W.
Endeavour, London	Birch John, & Co., Ltd. , 3, London Wall Buildings, E.C.
Engine, Glasgow	Smith A. & W., & Co., Ltd. , Eglinton Engine Works, Glasgow
Engine, Leeds	Hunslet Engine Co., Ltd. , Leeds
Engine, London	Marshall, Sons & Co., Ltd. , 79, Farringdon Rd., E.C.
Engineering, London	"Engineering," 35 & 36, Bedford St., Strand, W.C.
Engineers, Dartmouth ..	Simpson, Strickland & Co., Ltd. , Dartmouth, S. Devon
Engineers, Dundee	Urquhart, Lindsay & Co., Ltd. , Blackness Foundry, Dundee
Engineers, Liverpool ..	Wilson John H., & Co., Ltd. , Sandhills, Liverpool
Enriching, London	Wouldham Cement Co. (1900), Ltd. , 35, Gt. St. Helen's, E.C.
Enyam, London	Ingersoll-Sergeant Drill Co. , 114A, Queen Victoria St., E.C.
Epa, London	Alexander E. P., & Son , 306, High Holborn, W.C.
Equestrian, London	Bradley Pulverizer Co. , 37, Walbrook, E.C.
Erich Gerhardt, Dresden ..	Gerhardt Erich, Dresden-A. , Germany
Escamotur, London	Scott Ernest, & Mountain, Ltd. , Norfolk House, Laurence Pountney Lane, E.C.
Esoe, Newcastle-on-Tyne ..	Scott Ernest, & Mountain, Ltd. , Close Wks., Newcastle-on-Tyne
Ealub, Manchester	Hulse & Co., Ltd. , Ordsal Works, Salford, Manchester
Esto, Falkirk	Carron Company , Carron, Stirlingshire, N.B.
Etna, Leith	Davis & Primrose , Bangor Rd., Leith, N.B.
Evans, Wolverhampton ..	Evans Joseph, & Sons , Wolverhampton
Evaporate, Pollokshaws ..	Dalglish A. & W. , West of Scotland Boiler Works, Pollokshaws, Glasgow
Exactitude, London	Shannon Limited , Ropemaker St., E.C.
Excelsior, Loughborough ..	Main Geo., & Co. , Packe St., Loughborough
Expansion, Glasgow	Glasgow Railway Engineering Co., Ltd. , Govan, Glasgow
Eyriah, Tonbridge	Eyre Smelting Co., Ltd. , Barden Rd.-Works, Tonbridge, Kent
Fairbairns, Leeds	Fairbairn Macpherson , Wellington Foundry, Leeds
Fairley, Birmingham	Fairley James, & Sons , Old Mint, Shadwell St., Birmingham
Fairminded, London	Fairbanks, Morse & Co. , 126, Southwark St., S.E.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Falcon, Loughborough	Brush Electrical Engineering Co., Ltd. , Falcon Works, Lough-
Fan, Bradford	Sun Fan Co., Ltd. , Longside Lane, Bradford [borough
Fawcett, Liverpool	Fawcett, Preston & Co., Ltd. , Liverpool
Fencing, Brierley Hill	Hill & Smith , Brierley Hill Ironworks, near Dudley
Fencing, London	Hill & Smith , 118, Queen Victoria St., E.C.
Feuerungsbureau Zwickau- sachsen, Saxony	Spezialwerk Thost'scher Feuerungs - Anlagen , Ltd., Zwickau, Saxony
Fife Forge, Kirkcaldy	Fife Forge Co. , Kirkcaldy, Scotland
Finch, Chepstow	Finch Edward, & Co., Ltd. , Chepstow
Firth, Sheffield	Firth Thos. & Sons, Ltd. , Norfolk Works, Sheffield
Fleming, Halifax	Fleming, Birkby & Goodall, Ltd. , West Grove Mills, Halifax
Flues, Leeds	Deighton's Patent Flue & Tube Co., Ltd. , Vulcan Works, Pepper Rd., Leeds
Forestiere, London	Forrest & Co., Ltd. , 22, Billiter St., E.C.
Forge, Darlington	Darlington Forge Co., Ltd. , Darlington
Forge, Dumbarton	Dennystown Forge Co. , Dumbarton
Forge, Kirkstall	Kirkstall Forge Co. , Leeds
Forge, Sheffield	Carbrook Steel Works , Sheffield
Forrest, Wyvenhoe	Forrest & Co., Ltd. , Wyvenhoe, Essex
Forward, Sheffield	Ward T. W., Ltd. , Albion Works, Sheffield
Foundry, Bradford	Bever, Dorling & Co., Ltd. , Bowling Ironworks, Bradford
Foundry, Manchester	Wallwork Henry, & Co., Ltd. , Manchester
Foundry, Walton-on-Nase	Warner Robert, & Co. , Walton-on-the-Nase
Fowler, Leeds	Fowler John, & Co. (Leeds), Ltd. , Steam Plough Works, Leeds
France, Glasgow	France & Morgan , Whitefield Brass Works, Govan, Glasgow
Fraser, Arbroath	Fraser Douglas, & Sons , Arbroath, Scotland
Freddenia, London	Dennis W. F., & Co. , 49, Queen Victoria St., E.C.
Fredk. Avens, Stroud	Avens Frederick, & Co. , Trusty Engineering Works, Stroud, Glos.
Fugal, Glasgow	Watson, Laidlaw & Co. , Glasgow
Fuller Horsey, London	Fuller, Horsey, Sons & Cassell , 11, Billiter Square, E.C.
Fulmen, London	Thermit Ltd. , 27, Martin's Lane, Cannon St., E.C.
Galloway, Manchester	Galloways Limited , Manchester
Galvanoscope, London	Electrical Co., Ltd. , 121 to 125, Charing Cross Rd., W.C.
Gandy, Birkenhead	Gandy Belt Mfg. Co., Ltd. , Wheatland Works, Seacombe, Cheshire
Gandy, London	Gandy Belt Mfg. Co., Ltd. , 97, Queen Victoria St., E.C.
Garnett, Cleckheaton	Garnett P. & Co., Ltd. , Cleckheaton
Garrett, Leiston	Garrett R., & Sons, Ltd. , Leiston Works, Suffolk
Gas, Leeds	Clayton, Son & Co., Ltd. , Leeds City Boiler Works, Leeds
Gasengine, Birmingham	Kynoch Limited , Witton, Birmingham
Gaseous, London	Dowson Economic Gas & Power Co., Ltd. , 39, Victoria St., Westminster, S. W.
Gasholder, Stockton-on-Tees	Ashmore, Benson, Pease & Co., Ltd. , Stockton-on-Tees
Gasify, Levenshulme	Masons Gas Power Co., Ltd. , Alma Works, Levenshulme
Gearing, Huddersfield	Brown D., & Sons, Ltd. , Park Works, Lockwood, Huddersfield
Gebulzer, London	Sulzer Bros. , 34, Norfolk St., W.C.
Gegenstrom, London	Balcke & Co. , 27, Clement's Lane, E.C.
Germiston, Glasgow	Arrol's Bridge & Roof Co., Ltd. , Germiston Works, Glasgow
Gibbins, Birmingham	Gibbins R. C., & Co. , Berkeley St., Birmingham
Gibbons, Lower Gornal	Gibbons Bros. , Ltd., Dudley, Worcestershire
Gippeswyk, Ipswich	Turner E. R. & F., Ltd. (132), Ipswich

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Giweir, Glasgow	Weir G. & J., Ltd. , Holm Foundry, Cathcart, Glasgow
Glasses, Newton Heath	Butterworth Bros., Ltd. , Newton Heath Glass Works, Manchester
Glenfield, Kilmarnock	Glenfield & Kennedy, Ltd. , Kilmarnock, N.B.
Glenros, Glasgow	Ross R. G., & Son , Glasgow
Goldschmid, Haine - Saint - Pierre, Belgium	Forges, Usines & Fonderies , de et a Haine - Saint - Pierre, Belgium
Geldsworthy, Manchester	Goldsworthy T., & Son , Hulme, Manchester
Goodalla, Brighouse	Fleming, Birkby & Goodall, Ltd. , Clifton Bridge Mills, Brighouse
Gordolobo, London	Gordon James, & Co. , 52, Lime St., E.C.
Gotha, Slough	Consolidated Engineering Co., Ltd. , Slough
Gothic, London	Glover Thomas, & Co., Ltd. , 49, Queen Victoria St., E.C.
Gethic, Norwich	Laurence, Scott & Co., Ltd. , Norwich
Goubert, New York	Goubert Mfg. Co. , New York, U.S.A.
Grace, Keighley	Dean, Smith & Grace, Ltd. , Keighley
Grace, Thrapston	Smith & Grace Screw Boss Pulley Co., Ltd. , Thrapston
Grafton, Bedford	Grafton & Co. , Bedford
Graftonian, London	Grafton & Co. , 118, Cannon St., E.C.
Graysilver, London	India Rubber, Gutta Percha, & Telegraph Works Co., Ltd. , Silvertown, Essex
Greaves, Harbury	Greaves, Bull & Lakin, Ltd. , Harbury, Leamington
Greenwood, Leeds	Greenwood & Batley, Ltd. , Albion Works, Leeds
Greeley, Manchester	Smith & Coventry, Ltd. , Greeley Ironwks., Ordsal Lane, Manchester
Grevenor, London	Grevenor J. & H. , Eldon St. House, E.C.
Grice, Birmingham	Grice, Grice & Son , Sheepcote St., Birmingham
Grieve, Motherwell	Grieve John, & Co. , Motherwell, Scotland [Germany]
Grusonwerk, Magdeburg	Krupp Aktiengesellschaft Grusonwerk , Magdeburg-Buckau,
Guldnes, London	Daw A. & Z. , 11, Queen Victoria St., E.C.
Gunther, Oldham	Gunther W., & Sons , Central Works, Oldham [E.C.]
Gwynne, London	Gwynnes Ltd. , Hammersmith Ironworks, W., and 81, Cannon St.,
Hadfield, Sheffield	Hadfield's Steel Foundry Co., Ltd. , Hecla Works, Sheffield
Haigh, Oldham	Haigh W. B., & Co., Ltd. , 23, St. Swithin's Lane, E.C.
Halden, Manchester	Halden J., & Co. , 8, Albert Square, Manchester
Hall, Engineer, Newark	Hall J. S. , Midland Ironworks, Newark-on-Trent
Hall, Engineers, Peterboro'	Hall J. P., & Sons, Ltd. , Peterborough
Hallford, Dartford	Hall J. & E., Ltd. , Dartford, Kent
Hallford, London	Hall J. & E., Ltd. , 23, St. Swithin's Lane, E.C.
Hammers, Birmingham	Smith Thos., & Sons , of Saltley, Ltd., Saltley Mill, Birmingham
Handyside Derby	Handyside Andrew, & Co., Ltd. , Britannia Ironworks, Derby
Handyside, London	Handyside Andrew, & Co., Ltd. , 104, Queen Victoria St., E.C.
Hanielueg, Düsseldorf	Haniel & Lueg , Düsseldorf, Germany
Hardypick, Sheffield	Hardy Patent Pick Co., Ltd. , Sheffield
Hartnell, Leeds	Hartnell Wilson, & Co., Ltd. , Volt Works, Kirkstall Rd., Leeds
Hathorn, Leeds	Hathorn, Davey & Co., Ltd. , Sun Foundry, Leeds
Hayes, Stony Stratford	Hayes Edward , Stony Stratford, Wolverton, & 12, Gt. St. Helen's, E.C.
Heap, Ltd., Ashton-under-Lyne	Heap Jos., & Co., Ltd. , Ashton-under-Lyne
Heaterite, London	Wright Howard T., Bros. , Ltd., 72, Victoria St., S.W.
Heenan, Worcester	Heenan & Froude, Ltd. , Worcester Engineering Works, Worcester
Helical, Huddersfield	Hirst F. , Folly Hall, Huddersfield
Heroic, Reddish	Rowland B. R., Ltd., & Co. , Climax Works, Reddish, near Manchester

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Heth, Manchester	Hetherington John, & Sons, Ltd., Manchester
Hibon, London	Burton C. W., Griffiths & Co., 1, 2 & 3, Ludgate Square, Ludgate Hill, E.C.
Hierro, London	Breuer Schumacher & Co., Ltd., 21, Lime St., E.C.
Highgate, Shettleston	Pollock, MacNab & Highgate, Shettleston, Glasgow
Hobnalls, London	Hobdell, Way & Co., Ltd., 63, Crutched Friars, E.C.
Hoffmann, Chelmsford	Hoffmann Manufacturing Co., Ltd., Chelmsford
Hoffnungshuette, Oberhausen	Gutehoffnungshuette Coal, Iron, Steel & Engineering Co., Oberhausen-2, Rhineland
Holling, Glasgow	Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow
Hollingdrake, Stockport	Hollingdrake Hy., & Son (No. 4), Stockport
Holmes, Huddersfield	Holmes W. C., & Co., Huddersfield
Hoops, Motherwell	Motherwell Iron & Steel Co., Ltd., Motherwell, Scotland
Hopkinson, Huddersfield	Hopkinson J., & Co., Ltd., Huddersfield
Hornsby, Grantham	Hornsby R., & Sons, Ltd., Spittlegate Iron Works, Grantham
Hornsby, London	Hornsby R., & Sons, Ltd., 75A, Queen Victoria St., E.C.
Horsepower, London	Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., [E.C.]
Howden, Glasgow	Howden James, & Co., Scotland St., Glasgow
Howell, Sheffield	Howell & Co., Ltd., Brook Steel Works, Sheffield
Humpidge, Cainscross	Dudbridge Iron Works, Ltd., Dudbridge, near Stroud
Hyde, Bath, U.S.A.	Hyde Windlass Co., Bath, Maine, U.S.A.
Hydraulic, Bristol	Brasil, Holborow & Straker, Ltd., Vulcan Ironworks, Bristol
Hydraulic, Leeds	Middleton Robt., Sheepscair Foundry, Leeds
Hydraulics, London	Smith Archibald, & Stevens, Janus Works, Queen's Rd., Battersea
Hydrological, London	Warner Robert, & Co., 97, Queen Victoria St., E.C.
Hydrostatic, London	East Ferry Road Engineering Works Co., Ltd., Millwall, E.
Hypostile, Glasgow	Boyle R., & Son, 110, Bothwell, Glasgow
Hypostile, London	Boyle R., & Son, 64, Holborn Viaduct, E.C.
Hyson, Nottingham	Smith Bros. & Co., Hyson Green Works, Nottingham
Ibidem, London	Douglas Wm., & Sons, Ltd., Douglas Wharf, Putney, S.W.
Igniter, Birmingham	Lodge Bros. & Co., 14, New St., Birmingham
Inbargo, London	Williams Samuel, & Sons, Ltd., 36, Lime St., E.C.
Indicator, Manchester	Kirk Wheatley, Price & Co., Albert Square, Manchester
Indoes, London	Kirk Wheatley, Price & Co., 46, Watling St., E.C.
Influx, Manchester	Holden & Brooke, Ltd., Sirius Works, West Gorton, Manchester
Infusion, London	Rhodes B., & Son, Bow Brass Works, E.
Ingenieur, London	Wilson Alex., 3, Lombard Court, E.C.
Ingersoll, London	Ingersoll-Rand Co., 114, Queen Victoria St., E.C.
Ingot, Wishaw	Glasgow Iron & Steel Co., Ltd., Wishaw Iron & Steel Works, Wishaw
Instantly, London	Winter F., 8, Redcross St., E.C.
Instrument, Cambridge	Scientific Instrument Co., Ltd., Cambridge
Insulator, Prescot	British Insulated & Helsby Cables, Ltd., Prescot, Lancashire
Intensifier, London	Middleton Robt., 9, Fenchurch Avenue, E.C.
Intersection, London	Piggott Thos., & Co., Ltd., 63, Queen Victoria St., E.C.
Invention, London	Redfern G. F., & Co., 4, South St., Finsbury, E.C.
Invention, Sheffield	Laycock W. S., Ltd., Victoria Works, Millhouses, Sheffield
Inventions, Eastbourne	Howard Pneumatic Engineering Co., Ltd., Fort Rd., Eastbourne
Inventions, Glasgow	Thomson W. R. M., & Co., 96, Buchanan St., Glasgow
Iscas, London	Iscas Foundry & Engineering Co., 10, Bush Lane, E.C.
Iscas, Newport	Iscas Foundry & Engineering Co., Newport, Monmouthshire

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Isham, Liverpool	United Kingdom Self-Adjusting Anti-Friction Metallic Packing Syndicate, Ltd., 14, Cook St., Liverpool
Isler, London	Isler O., & Co., Artesian Works, Bear Lane, S.E.
Islas, Stanningley	Islas Limited, Steam Crane Works, Stanningley, Leeds
Isobar, London	Spagnoletti J. E., & Co., Goldhawk Works, Goldhawk Rd., W.
Jackson, Claycross	Clay Cross Co., Clay Cross, near Chesterfield
Jacksons, Manchester	Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester
Jessop, Leicester	Jessop & Appleby Bros. (Leicester and London), Ltd., Leicester
Jessops, Sheffield	Jessop Wm., & Sons, Ltd., Brightside Works, Sheffield
June, London	Johnson & Phillips, Ltd., 14, Union Court, E.C.
June, Old Charlton	Johnson & Phillips, Ltd., Victoria Works, Old Charlton, Kent
Kahncrete, London	Trussed Concrete Steel Co. of England, 11, Tothill St., S.W.
Kaye, High Holborn, London	Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.
Kays, Engineers, Bury	Kay James C., & Co., Ltd., Barnbrook Works, Bury, Lanca.
Kilbowie, London	Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E.
Kincaid, Greenock	Kincaid John G., & Co., Greenock, Scotland
King, Engineer, Nailsworth ..	King H. J. H., & Co., Nailsworth, Glos.
Knapping, Leeds	Baxter W. H., Ltd., Leeds
Korting, London	Korting Bros., Ltd., 53, Victoria St., Westminster, S.W.
Kramos, Locksbrook, Bath ..	Kramos Ltd., Locksbrook Engineering Works, Bath
Kuemacoo, London	Kuettner, Macdonnell & Cookson, Ltd., 37, Endell St., W.C.
Lacombe, London	Le Carbone, 17, Water Lane, Great Tower St., E.C.
Laminated, Glasgow	Hendry James, Laminated Leather Works, Bridgeton, Glasgow
Land, Grantham	Grantham Boiler & Crank Co., Ltd., Grantham
Lang, Johnstone	Lang John, & Sons, Johnstone, N.B.
Lapweld, Glasgow	Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow
Lathe, Coventry	Herbert Alfred, Ltd., Coventry
Lathes, Birmingham	Taylor Charles, Bartholomew St., Birmingham
Lathes, Felling	Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne
Lees, Hellinwood	Lees T. & R., Hollinwood, near Manchester
Lewis, Wolverhampton	Lewis E., & Sons, Wolverhampton
Lias, London	Greaves, Bull & Lakin, Ltd., 16A, South Wharf, Paddington, W.
Lidgerwood, London	Lidgerwood Mfg. Co., Caxton House, Westminster, S.W.
Lifting, Leicester	Taylor & Hubbard, Leicester
Moncelle, London	Walker James, & Co., Lion Works, Garford St., Poplar, E.
Lithographer, London	Kell T., & Son, 40, King St., Covent Garden, W.C.
Lloyds, Birmingham	Stewarts & Lloyds, Ltd., Albion Tube Works, Birmingham
Lobnitz, Renfrew	Lobnitz & Co., Ltd., Renfrew, Scotland
Lockett, London	Cutbill-King & Co., 26, Nicholas Lane, E.C. [burn, Glasgow
Loco, Glasgow	North British Locomotive Co., Ltd., Hyde Park Works, Spring-
Loco, Gorton	Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester
Loco, Leeds	Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds
Loco Works, Remiley	Davies & Metcalfe, Ltd., Romiley, Manchester
Locomotive, Cassel, Germany	Henschel & Sohn, Cassel, Germany
Locomotive, Newcastle	Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne
Locomotive, New York, U.S.A.	American Locomotive Co., 111, Broadway, New York City, U S.A.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER
Lumby, Halifax	Lumby, Son & Wood, Ltd. , Greetland, near Halifax
Lunken, London	Lunken Valve Co. , 35, Great Dover St., S.E.
Luna, Paris	Pierson J. & O. G. , 47, Rue Lafayette, Paris
Lustroso, London	Ajax Metal Co. , 26, Victoria St., S.W.
Lustroso, London	Dixon Jos., Crucible Co. , 26, Victoria St., S.W.
Lyncurium, London	Lufkin Rule Co. , 24 & 26, Holborn (Buchanan Buildings), W.C.
Lysaght, Bristol	Lysaght John, Ltd. , St. Vincent Ironworks, Bristol
Lytestrong, London	Warden A., & Co. , 60, Great Eastern St., E.C.
Machinery, Reading	Mackies Ltd. , Berks Iron Works, Reading
MacLellan, Glasgow	MacLellan P. & W., Ltd. , Offices: 122, Trongate, Glasgow
MacLellan, London	MacLellan P. & W., Ltd. , 7 & 8, Great Winchester St., E.C.
Macnoll, Glasgow	McNeill C. , Kinning Park Iron Works, Glasgow
Maconie, Glasgow	Harvey Engineering Co., Ltd. Scotland St. Engine Works, Glasgow
Magnolier, London	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd. , 49, Queen Victoria St., E.C.
Manageable, Basingstoke	Thornycroft J. I., & Co., Ltd. , Basingstoke, Hants
Manageable, London	Thornycroft J. I., & Co., Ltd. , Hogarth Lane, Chiswick
Management, London	Arc Lamps, Ltd. , Crown Buildings, 62, Old Broad St., E.C.
Management, London	Edwards' Air Pump Syndicate, Ltd. , 3 & 5, Crown Court, Old Broad St., E.C.
Manlove, London	Manlove, Alliot & Co., Ltd. , 41 & 42, Parliament St., S.W.
Manlove, Nottingham	Manlove, Alliot & Co., Ltd. , Nottingham
Manning, Leeds	Manning, Wardle & Co., Ltd. , Boyne Engine Works, Leeds
Manometer, Manchester	Schäfer & Budenberg, Ltd. , Whitworth St., London Rd., Man- [chester]
Marsden, Leeds	Marsden H. R. , Soho Foundry, Leeds
Marshall, Gainsborough	Marshall, Sons & Co., Ltd. , Gainsborough
Maschinenbau, Duisburg, Germany	Bechem & Keetman , Duisburg, Germany
Maschinenfabrik, Hannover, Linden, Germany	Hannoversche Maschinenbau-Aktien-Gesellschaft vor- mals Georg Egestorff , Linden vor Hannover, Germany
Maschinenfabrik, Hasen- clever, Düsseldorf	Hasenclever C. W. , Söhne, Düsseldorf, Germany
Maschintatzel, Troppau, Austria	Tatzell Ed. , Troppau, Austria
Masonica, Boston, U.S.A.	Mason Regulator Co. , Boston, Mass., U.S.A.
Massey, Openshaw	Massey B. & S. , Openshaw, Manchester
Materials, Birmingham	Canning W., & Co. , Birmingham
Mather, Manchester	Mather & Platt, Ltd. , Salford Ironworks, Manchester
Maxim, Loughborough	Godfrey J. T. , 24A, High St., Loughborough, Leicestershire
McTear, Belfast	McTear & Co., Ltd. , Newtownards Rd., Belfast
Measures, London	Measures Bros., Ltd. , Southwark St., S.E.
Melada, Glasgow	McOnie A. & P. W. , Cessnock Engine Works, Govan, Glasgow
Meldrum, London	Meldrum Bros., Ltd. , 66, Victoria St., Westminster, S.W.
Meldrum, Manchester	Meldrum Bros., Ltd. , Timperley, near Manchester
Mellis, London	Kerr, Stuart & Co., Ltd. , 1, Broad St. Place, E.C.
Meloid, Yoker	Bull's Metal and Melloid Co., Ltd. , Yoker, near Glasgow
Merryweather, London	Merryweather & Sons , 63, Long Acre, W.C.
Metaldos, London	Hunt Robert W., & Co. , Norfolk House, Cannon St., E.C.
Metallie, Bradford	United States Metallie Packing Co., Ltd. , Soho Works, Thornton Rd., Bradford

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Metallic, Glasgow	Murray, McVinnie & Co. , Mavisbank Quay, Glasgow
Method, Birmingham	Player W. & J. , Birmingham
Metro, Birmingham	Metropolitan Amalgamated Railway Carriage and Wagon Co., Ltd. , Saltley, Birmingham
Midland, Shrewsbury	Midland Railway Carriage & Wagon Co. , Abbey Works, Shrewsbury
Millwright, London	Jessop & Appleby Bros. (Leicester & London), Ltd., 22, Walbrook, E.C.
Mirrlees, Glasgow	Mirrlees Watson Co., Ltd. , Scotland St., Glasgow
Modernize, Manchester	Klein Engineering Co., Ltd. , 94, Market St., Manchester
Molders, London	Jackman J. W., & Co., Ltd. , 89, Victoria St., S.W.
Moncrieff, Perth	Moncrieff John, Ltd. , Perth, Scotland
Motor, Bath	Griffin Engineering Co. , Bath
Motor, Leeds	Yorkshire Patent Steam Wagon Co. , Pepper Rd., Hunslet, Leeds
Moyaux, Haine-St.-Pierre, Belgium	Baume & Marpent , Moyaux, Haine-St.-Pierre, Belgium
Multiphase, London	British Westinghouse Electric & Mfg. Co., Ltd. , Norfolk St., Strand, W.C.
Multitube, Annan	Cochran & Co. , Annan, Ltd., Annan, N.B.
Mumford, Colchester	Mumford A. G., Ltd. , Culver St. Ironworks, Colchester
Musgrave, Limited, Belfast	Musgrave & Co., Ltd. , St. Ann's Ironworks, Belfast
Muskers, Liverpool	Musker C. & A., Ltd. , Liverpool
Nahmer, London	Koop Ernest C. , 42-44, Moor Lane, E.C.
Nahmer, London	Mork Patent Pulley Block Co. , 42-44, Moor Lane, E.C.
Nasmyth, Patricroft	Nasmyth, Wilson & Co., Ltd. , Bridgewater Foundry, Patricroft, near Manchester
National, Ashton-under-Lyne	National Gas Engine Co., Ltd. , Ashton-under-Lyne, Manchester
National, Manchester	National Boiler & General Insurance Co., Ltd. , 22, St. Ann's Square, Manchester
Nautical, Glasgow	Mechan & Sons, Ltd. , Scotstoun Iron Works, Glasgow
Naxium, London	London Emery Works Co. , Park, Tottenham, N
Negretti, London	Negretti & Zambra , 38, Holborn Viaduct, E.C
Nelson, Motherwell	Hurst, Nelson & Co., Ltd. , Glasgow Rolling Stock & Plant Works, Motherwell
Nettlefolds, Birmingham	Guest, Keen & Nettlefolds, Ltd. , 16, Broad St., Birmingham
Nettlefolds, London	Guest, Keen & Nettlefolds, Ltd. , London
New Engine Co., Acton	New Engine Co. , Acton Hill Works, Acton
Newburn, London	Spencer John, & Sons , 82, Victoria St., Westminster, S.W. [Tyne
Newburn, Newcastle-on-Tyne	Spencer John, & Sons, Ltd. , Newburn Steel Works, Newcastle-on-Tyne
Newton, Sheffield	Newton Chambers & Co., Ltd. , Thorncliffe Ironwks., nr. Sheffield
Nicaise Delcuve, La Louvière, Belgium	Nicaise & Delcuve (Société Anonyme) , La Louvière, Belgium
Niles, Hamilton, Ohio	Niles-Bement-Pond Co. , Hamilton, Ohio, U.S.A.
Nileswerke, Ober Schöneweide	German Niles Tool Works , Ober Schöneweide, near Berlin
Niliacus, London	Bertram John, & Sons Co., Ltd. , 23 & 25, Victoria St., S.W.
Niliacus, London	Niles-Bement-Pond Co. , 23 & 25, Victoria St., Westminster, S.W.
Noiram, London	Marion & Co., Ltd. , 22 & 23, Soho Square, W.
Normandy, London	Normandy's Patent Marine Aerated Fresh Water Co., Ltd. , Victoria Dock Rd., E.
Nyrke, London	Nye Arthur W. , 110, Cannon St., E.C.

KEY TO TELEGRAPHIC ADDRESSES.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Oakey, London	Oakey John, & Sons, Ltd., Westminster Bridge Road, S.E.
Ooclude, London	Nalder Bros., & Thompson, Ltd., 34, Queen St., E.C.
Ocean, Sheffield	Standard Piston Ring and Engineering Co., Ltd., Premier Works, Wentworth St., Sheffield
Okraft, London	Pels Henry, & Co., 265B, Strand, W.C.
Oldens, Birmingham	Youngs, Ryland St. Works, Birmingham
Oliveline, London	Duncan, Watson & Co., Dashwood House, New Broad St., E.C.
Olrick, London	Olrick L. & Co., Palmerston House, Bishopsgate St., E.C.
Opodeldoc, London	Churchill Chas. & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.
Original, Manchester	Cameron John, Ltd., Oldfield Rd. Ironworks, Salford
Ottomotor, Cöln, Germany	Gasmotoren-Fabrik Deutz, Cologne-Deutz 34, Germany
Outburst, London	Bagshawe & Co., 3, Tower Royal, Cannon St., E.C.
Overcomer, London	Peters Brothers, 34, Victoria St., S.W.
Owens, London	Owens S. & Co., Whitelars, E.C.
Oxygen, Glasgow	Scotch & Irish Oxygen Co., Ltd., Rosehill Works, Glasgow
Pagefield, Wigan	Walker Brothers (Wigan), Ltd., Pagefield Ironworks, Wigan
Paratus, Birmingham	Stacey Frank, & Co., Winchester House, Birmingham
Parker, Derby	Parker Foundry Co., Derby
Partridge Cooper, London	Partridge & Cooper, Ltd., 191 & 192, Fleet St., & 1 & 2, Chancery Lane, E.C.
Patent, Scarborough	Baker's Patent Appliances Co., Ltd., Melrose St. Wks., Scarborough
Patents, Glasgow	Cruikshank & Fairweather, 62, St. Vincent St., Glasgow
Patterns, Huddersfield	Brown D. & Sons, Ltd., East Parade, Huddersfield
Paul, Dumbarton	Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton
Paxman, Colchester	Davey, Paxman & Co., Ltd., Standard Works, Colchester
Paxman, London	Davey, Paxman & Co., Ltd., 78, Queen Victoria St., E.C.
Peckett, Bristol	Peckett & Sons, Atlas Engine Works, Bristol
Peebles, Edinburgh	Peebles Bruce, & Co., Ltd., East Pilton, Edinburgh
Pecargo, London	Peebles Steam Car Co., Ltd., 25, Victoria St., S.W.
Penman, Glasgow	Penman & Co., 377, Dalmarnock Rd., Glasgow
Percussive, London	Lacy-Hulbert & Co., 25, Victoria St., S.W.
Perforation, London	Barns W., & Son Globe Works, Queensland Rd., Holloway, N.
Persberg, Sheffield	Jackman Joseph, & Co., Ltd., Persberg Steel Works, Attercliffe [Common, Sheffield]
Peter Pilkington, Ltd., Bamber Bridge	Pilkington Peter, Ltd., Bamber Bridge, Preston
Pfeil, London	Pfeil & Co., 145-9, St. John St., Clerkenwell, E.C.
Phillack, London	National Explosives Co., Ltd., 11, Austin Friars, E.C.
Phoenix, Keighley	Summerscales W., & Sons, Ltd., Phoenix Foundry, Keighley
Phoenix, Paisley	Fleming & Ferguson, Ltd., Paisley, near Glasgow
Phosphor, Birmingham	Phosphor Bronze Co., Ltd., Birmingham
Phosphor Bronze, London	Phosphor Bronze Co., Ltd., 87, Sumner St., S.E.
Photophore, London	Gulibert-Martin, 9, Edmund Place, Aldersgate, E.C.
Piping, Glasgow	Wilsons & Union Tube Co. Ltd., 5, Wellington St., Glasgow
Pipkin, New York	Jenkin Bros., 71, John St., New York, U.S.A.
Piston, Sheffield	Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield
Pistons, Manchester	Lancaster & Tonge, Ltd., Pendleton, near Manchester
Pitman, Bosbury	Pitman Percy, Bosbury, Ledbury, Herefordshire
Pivoted, London	Weston Electrical Instrument Co., Audrey House, Ely Place, Holborn, E.C.
Planers, Leeds	Bateman's Machine Tool Co., Ltd., Hunslet, Leeds

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Plasmo, London	Dudgeon F. S. , 30, Great St. Helen's, E.C.
Plasme, London	Lubecker Machine and Manufacturing Co. , 30, Gt. St. Helen's, E.C.
Platt, Wednesbury	Platt Samuel, Ltd. , Wednesbury
Plenty, Newbury	Plenty & Son, Ltd. , Newbury, Berks
Pneumatoid, London	Globe Pneumatic Engineering Co., Ltd. , 150, Queen Victoria St., E.C.
Ponfex, London	Pontifex & Wood, Ltd. , 175-177, Salisbury House, London Wall, E.C.
Pott, Motherwell	Pott, Cassells & Williamson , Motherwell, near Glasgow
Pratt, Halifax	Pratt F., & Co., Ltd. , Machine Tool Works, Halifax
Pratwhit, Hartford, U.S.A. ..	Pratt & Whitney Co. , Hartford, Conn., U.S.A.
Preferment, London	Ledward & Beckett, Ltd. , Sanctuary House, Tothill St., S.W.
Premier, Sandiacre	"Premier" Gas Engine Co., Ltd. , Sandiacre, Nottingham
Press, Leeds	Rice & Co. (Leeds), Ltd. , Neville Works, Elland Rd., Leeds
Presses, Wolverhampton ..	Smith Daniell, & Co. , Raglan St., Wolverhampton
Prices, Birkenhead	Price's Patent Candle Co., Ltd. , Bromborough Pool, Liverpool
Priestman, Hull	Priestman Bros., Ltd. , Holderness Foundry, Hull
Priestman, London	Priestman Bros., Ltd. , 3, Laurence Pountney Hill, E.C.
Privilege, London	Harris & Mills , 23, Southampton Buildings, W.C.
Probate, London	Rennie G., & Co. , Thames St., Greenwich
Proctor, Burnley	Proctor James, Burnley, Lancashire
Promptitude, London	Baldwins Ltd. , 5, Fenchurch St., E.C.
Puocoon, London	London Engineering Co., Ltd. , 6, St. Helen's Place, E.C.
Pulleys, Bradford	Croft & Perkins , Thornberry Rd., Bradford, Yorks.
Pulleys, Gloucester	Webb, Peet & Co. , Westgate Iron Works, Gloucester
Pulsometer, London	Pulsometer Engineering Co., Ltd. , 61 & 63, Queen Victoria St., E.C.
Pulsometer, Reading	Pulsometer Engineering Co., Ltd. , Nine Elms Ironworks, Reading, Berks.
Pump, Bedford	Allen W. H., Son & Co., Ltd. , Queen's Engineering Works, Bedford
Pump, London	Allen W. H., Son & Co., Ltd. , 27, Old Queen St., S.W.
Pumperling, London	Haste Pump Co., Ltd. , Crown Bldgs., Crown Ct., Old Broad St., E.C.
Pumping, London	Werthington Pump Co., Ltd. , 153, Queen Victoria St., E.C.
Pumps, Leeds	Leeds Engineering & Hydraulic Co., Ltd. , Cross Stamford St., Leeds
Pumps, Manchester	Pearn F., & Co., Ltd. , West Gorton, Manchester
Pumps, Stoke-on-Trent	Shore T., & Sons , Albion Foundry, Etruria, Stoke-on-Trent
Pyrometer, London	Schäffer & Budenberg, Ltd. , 77A, Queen Victoria St., E.C.
Pyxar, London	Stamm W. , 25, College Hill, E.C.
Quarries, Leeds	Whitaker Bros., Ltd. , Horsforth, near Leeds
Radial, Halifax	Smith G. F., Ltd. , Paragon Ironworks, Halifax, England
Radsatz, London	Compagnie Centrale de Construction, Ltd. , Dashwood House, New Broad St., E.C.
Rails, Birkenhead	English McKenna Process Co., Ltd. , Dock Rd., Seacombe, Birkenhead
Rails, Leeds	Firth William, Ltd. , Water Lane, Leeds
Railway, Darlington	McLachlan & Co., Ltd. , Darlington
Rams, Accrington	Blake John, Ltd. , Oxford St. Works, Accrington, Lancashire

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Ransome, London	Ransome A., & Co., Ltd., 63, Queen Victoria St., E.C.
Ransome, Newark	Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent
Ransomes, Ipswich	Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich
Readers, Nottingham	Reader E., & Sons, Phoenix Works, Nottingham
Reavell, Ipswich	Reavell & Co., Ltd., Ipswich
Reducing, Glasgow	Auld David, & Sons, Whitevale Foundry, Glasgow
Regulator, Dusseldorf	Hartung, Kuhn & Co., Dusseldorf
Reichwald, London	Reichwald August, Finsbury Pavement House, Finsbury Pavement,
Reichwald, Newcastle-on-Tyne	Reichwald August, Lombard St., Newcastle-on-Tyne [E.C.]
Renshaws, Stoke-on-Trent	Renshaw W. R., & Co., Ltd., Trustees for, Stoke-on-Trent
Repsor, Portsmouth	Vesper & Co., Ltd., Broad St., Portsmouth
Rhodique, Bradford	Rhodes Electrical Mfg. Co., Ltd., City Electrical Wks., Bradford
Richards, Altrincham	Richards Geo., & Co., Ltd, Broadheath, near Manchester
Richardsons, Hartlepool	Richardsons, Westgarth & Co., Ltd., Hartlepool
Rider, Bolton	Ryder Thos., & Son, Turner Bridge Ironworks, Bolton
Riemlager, Hamburg	Gohrekens C. Otto, Grosse Reichenstrasse 53-57, Hamburg
Rimington Bros., Abbey St., Carlisle	Rimington Bros., Carlisle
Rivetter, Leeds	Berry Henry, & Co., Ltd., Croydon Works, Leeds
Robey, Lincoln	Robey & Co., Ltd., Lincoln
Robinson, Rochdale	Robinson T., & Son, Ltd., Rochdale
Rocket, Darlington	Stephenson Robert, & Co., Ltd., Darlington
Roebuck, London	Buck & Hickman, Ltd., 2 & 4, Whitechapel Rd., E.
Roger, Stockton-on-Tees	Roger Robt., & Co., Ltd., Stockton Iron Foundry, Stockton-on-Tees
Rolling, Birmingham	Jones George, Ltd., Lionel St., Birmingham
Roman, Manchester	Bremner J. A., & Co., Albert St., Manchester
Rose, Hull	Rose, Dewns & Thompson, Ltd., Old Foundry, Hull
Rotary, Oldham	Bradbury & Co., Ltd., Wellington Works, Oldham
Russell, Motherwell	Russell G., & Co., Ltd., Motherwell, N.B.
Russell, Wednesbury	Russell James, & Sons, Ltd., Crown Tube Works, Wednesbury
Ruston, Lincoln	Ruston, Procter & Co., Ltd., Sheaf Iron Works, Lincoln
Salford, Brighouse	Fleming, Birkby & Goodall, Ltd., Salford Card Works, Brighouse
Salter, Oxford	Salter Bros., Oxford
Salters, West Bromwich	Salter Geo., & Co., West Bromwich
Samuelson, Banbury	Samuelson & Co., Ltd., Banbury, Oxon
Sanders, London	Burnham, Williams & Co., 110, Cannon St., E.C.
Sandon, Patricroft	Browett, Lindley & Co. (1899), Ltd., Patricroft, Manchester
Sandycroft, Hawarden	Sandycroft Foundry Co., Ltd., near Chester
Schram, London	Schram, Harker & Co., Cannon St. House, E.C.
Schuhstoff, London	Marx J., & Co., 133-9, Finsbury Pavement, E.C.
Screenes, Bury St. Edmunds	Boby Robert, Ltd., St. Andrew's Works, Bury St. Edmunds
Scriven, Leeds	Scriven & Co., Marsh Lane, Leeds
Seafeld, Manchester	Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester
Selig, London	Selig, Sonnenthal & Co., 85, Queen Victoria St., E.C.
Sellers, Philadelphia	Sellers William, & Co. (Incorp.), Philadelphia, Penn., U.S.A.
Seyah, London	Hayes Edward, Palace Chambers, 9, Bridge St., S.W.
Shaft, Wednesbury	Patent Shaft & Axletree Co., Ltd., Wednesbury
Shanks, Johnstone	Shanks Thomas, & Co., Union Iron Works, Johnstone, near Glasgow
Sharon, Derby	Sharon Chemical Co., Ltd., Derby

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Sheepbridge, Chesterfield ..	Sheepbridge Coal & Iron Co., Ltd., Chesterfield
Shelton, Stoke-on-Trent ..	Shelton Iron, Steel and Coal Co., Ltd., Stoke-on-Trent
Sheltonian, London ..	Shelton Iron, Steel and Coal Co., Ltd., 122, Cannon St., E.C.
Shinerous, London ..	Sun Gas Co., Ltd., 15, Tothill St., Broadway, Westminster, S.W.
Shovelling, London ..	Brown Hoisting Machinery Co. 39, Victoria St., Westminster,
Siebe, London ..	Siebe, Gorman & Co., Ltd., Neptune Works, S.E. [S.W.]
Siemens, Motherwell ..	Lanarkshire Steel Co., Ltd., Motherwell, N.B.
Silently, London ..	Parsons C. A., & Co., 66, Victoria St., S.W.
Silvergray, London ..	India Rubber, Gutta Percha, & Telegraph Works Co., Ltd., 100, Cannon St., E.C.
Silverine, London ..	Baldwins Ltd., Orchard St., Blackwall
Simons, Renfrew ..	Simons W., & Co., Ltd., Renfrew, Scotland
Sinclair, Leith ..	Sinclair George, Albion Boiler Works, Leith, N.B.
Sirocco, Belfast ..	Davidson & Co., Ltd., Sirocco Engineering Works, Belfast
Sivad, London ..	American Locomotive Co., 26, Victoria St., Westminster, S.W.
Sivad, London ..	Locomotive & Machine Co. of Montreal, Ltd., 26, Victoria St., Westminster, S.W.
Sleepers, Glasgow ..	Bruce Alex., & Co., 53, Bothwell St., Glasgow
Smedleys, Belper ..	Smedley Bros., Ltd., Belper, Derbyshire
Smith, Engineer, Carshalton	Smith John, & Co., Grove Ironworks, Carshalton, Surrey
Smith, Rodley ..	Smith Thos., & Sons, Steam & Electric Crane Works, Rodley, nr. Leeds
Smith, 9, Strand, London ..	Smith S., & Son, Ltd., 9, Strand, W.C.
Smithfield, Leeds ..	Green T., & Son, Ltd., Smithfield Iron Works, Leeds
Smiths, Nottingham ..	Smith Sydney, & Sons, Basford Brass Works, Nottingham
Smit-Zoon, Kinderdijk ..	Smit L., & Zoon, Kinderdijk, near Rotterdam, Holland
Smooth-on, Jersey City, U.S.A.	Smooth-on Manufacturing Co., Jersey City, N.Y., U.S.A.
Snowdrift, London ..	Snowdon, Sons & Co., Ltd., Millwall, E.
Soho, Paisley ..	Campbell & Calderwood, Soho Engine Works, Paisley
Solution, London ..	Vacuum Brake Co., 32, Queen Victoria St., E.C.
Sonnex, Liverpool ..	Howard Bros., 40, Paradise St., Liverpool
Spherical, Newton Heath ..	Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester
Sprocket, London ..	Ashton Valve Co., 63, Crutched Friars, E.C.
Stableford, Coalville ..	Stableford & Co., Ltd., Coalville
Stahloeking, Düsseldorf ..	Oeking & Co., Düsseldorf, Germany
Steamplow, London ..	Fowler John, & Co. (Leeds) Ltd., 6, Lombard St., E.C.
Steam Users, Manchester ..	Manchester Steam Users' Association, 9, Mount St., Manchester
Steel, Glasgow ..	Steel Company of Scotland, 23, Royal Exchange Sq., Glasgow
Steelworks, Wolsingham ..	Rogerson John, & Co., Ltd., Wolsingham, E.S.O., Co. Durham
Stein, Castlecary ..	Stein John G., & Co., Silica and Firebrick Works, Castlecary, near Glasgow
Steel Card, Manchester ..	Ashworth Elijah, Collyhurst, Manchester
Stellite, Birmingham ..	Electric & Ordnance Accessories Co., Ltd., Stellite Works, Birmingham
Stewart, Glasgow ..	Stewart D., & Co. (1902), Ltd., London Road Ironworks, Glasgow
Stirlingno, Motherwell ..	Stirling Boiler Co., Ltd., Motherwell, Scotland
St. Nicholas, Carlisle ..	Cowans, Sheldon & Co., Ltd., Carlisle
Storage, London ..	Electrical Power Storage Co., Ltd., 4, Gt. Winchester St., E.C.
Stork, Manchester ..	Storey Isaac, & Sons, Ltd., Empress Foundry, Manchester
Stothert, Bath ..	Stothert & Pitt, Ltd., Bath
Stothert, London ..	Stothert & Pitt, Ltd., 53, Victoria St., S.W.
Strength, Manchester ..	Unbreakable Pulley & Mill Gearing Co., Ltd. 43, West Gorton, Manchester

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Structures, Birmingham	Keep F. A., Juxon & Co. , Empire Works, Barn St., Birmingham
Summerson, Darlington	Summerson Thos., & Sons, Ltd. , Darlington
Surrey Works, London	Green T., & Son, Ltd. , New Surrey Works, Southwark St., S.E.
Suspend, London	Wheeler Condenser & Engineering Co. , 2 & 3, Norfolk St. Strand, W.C.
Sustained, London	Klinger Richard, & Co. , 66 Fenchurch St., E.C.
Switch, Manchester	Royce Ltd. , Hulme, Manchester
Switches, London	Taylor's Patent Shunting Lever, Ltd. , 29, Regent St., S.W.
Tangyes, Birmingham	Tangyes Limited , Cornwall Works, Birmingham
Tangyes, London	Tangyes Limited , 35, Queen Victoria St., E.C.
Tanks, Birmingham	Ash Joseph, & Son, Rea Works , Rea St. South, Birmingham
Tannett Walker, Leeds	Tannett Walker & Co., Ltd. , Leeds
Tape, Salford	Widdowson J. H. , Ordall Lane, Salford, Manchester
Tay, Glasgow	Arrol Sir William, & Co., Ltd. , Dalmarnock Iron Works, Bridgeton Glasgow
Teesdale, Stockton-on-Tees ..	Head, Wrightson & Co., Ltd. , Teesdale Ironworks, Thornaby-on-Tees
Teeside, Middlesbrough ..	Tees Side Bridge & Engineering Works, Ltd. , Middlesbrough
Temperature, London ..	Green & Boulding, Ltd. , 28, New Bridge St., E.C.
Temperature, London ..	Star Brass Mfg. Co. , 28, New Bridge St., E.C.
Testwort, London ..	Lassen & Hjort , 52, Queen Victoria St., E.C.
Tetratomic, London ..	Power-Gas Corporation, Ltd. , 39, Victoria St., S.W.
Theorem, Patricroft ..	Gardner L., & Sons, Ltd. , Barton Hall Engine Works, Patricroft, Manchester
Thirtyfour, London ..	Scott Geo., & Son (London), Ltd. , 44, Christian St., E.
Thornycroft, London ..	Thornycroft J. I., & Co., Ltd. , Church Wharf, Chiswick, W.
Thornycroft, Southampton ..	Thornycroft J. I., & Co. , Woolston, Southampton
Thwaites, Bradford ..	Thwaites Bros. , Ltd., Bradford, Yorkshire
Tilghmans, Altrincham ..	Tilghman's Patent Sand Blast Co., Ltd. , Broadheath, near Manchester
Tolamaco, London ..	Armstrong James, & Co., Ltd. , 116, Queen Victoria St., E.C.
Tomey, Aston, Birmingham ..	Tomey Joseph, & Sons, Ltd. , Manor Glass Works, Aston, Birmingham
Tools, Keighley ..	Mitchell D., & Co., Ltd. , Keighley, Yorks
Tools, Leeds ..	Musgrave Bros. , Crown Point Foundry, Leeds
Toughest, Manchester ..	Moor & Co. , 165, Princess St., Manchester
Towards, Newcastle-on-Tyne	Toward T., & Co. , 9, St. Lawrence, Newcastle-on-Tyne
Transume, London ..	Temperley Transporter Co. , 72, Bishopsgate St. Within, E.C.
Treasure, Liverpool ..	Treasure J. B., & Co. , 8, Vauxhall Rd., Liverpool
Trewent, London ..	Trewent F. J. , 48, Billiter Buildings, Billiter St., E.C.
Tribrach, London ..	Stanley W. F., & Co., Ltd. , 13, Railway Approach, London Bridge, S.E.
Triple, Glasgow ..	Rodger A., & Co. , St. Helen's Engine Works, Govan, Glasgow
Tube, Glasgow ..	Marshall John, & Sons , Glasgow Tube Works, Glasgow
Tubes, Chesterfield ..	Universal Tube Co., Ltd. , Chesterfield
Tuckahoe, Philadelphia ..	Wood R. D., & Co. , Philadelphia, U.S.A.
Tucks, Dublin ..	Tuck & Co., Ltd. , 18, Aston's Quay, Dublin
Tucks, London ..	Tuck & Co., Ltd. , 116, Cannon St., E.C.
Tudor, Birmingham ..	Ward H. W., & Co. , Lionel St., Birmingham
Tullis, Clydebank ..	Tullis D. & J., Ltd. , Kilbowie Ironworks, near Glasgow
Tullis, Glasgow ..	Tullis John, & Son, Ltd. , St. Ann's Leather Works, Glasgow
Turbinatus, London ..	Nell Frederic , 46, Queen Victoria St., E.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Turbinia, Wallsend	Parsons Marine Steam Turbine Co., Ltd. , Turbinia Works, Wallsend-on-Tyne
Turbo, Newcastle-on-Tyne ..	Parsons C. A., & Co. , Heaton Works, Newcastle
Turnstile, London	Stanley W. F., & Co., Ltd. , 286, High Holborn, W.C.
Turretorum, London	Jones & Lamson Machine Co. , Jubilee Buildings, 97, Queen Victoria St., E.C.
Turtons, Sheffield	Turton T., & Sons, Ltd. , Spring Works, Sheffield
Tylerox, London	Hayward-Tyler & Co., Ltd. , 99, Queen Victoria St., E.C.
Tyne, Newcastle-on-Tyne ..	Spencer John, & Sons, Ltd. , Ouseburn Works, Newcastle-on-Tyne
Unbreakable, London	Wells A. C., & Co. , 102, Midland Rd., St. Pancras, N.W.
Unbreakable, Manchester ..	Wells A. C., & Co. , Carnarvon St., Cheetham, Manchester
Underfeed, London	Underfeed Stoker Co. , Coventry House, South Place, E.C.
Unisonally, London	Goubert Mfg. Co. , 28, Hatton Garden, E.C.
Universe, Birmingham	Wright J. & E., Ltd. , Universe Works, Birmingham
Unwavering, London	Hulburd Engineering Co. , 150, Leadenhall St., E.C.
Valor, Birmingham	Valor Co., Ltd. , Rocky Lane, Aston Cross, Birmingham
Valve, Bishopbriggs	Turnbull Alex., & Co., Ltd. , Bishopbriggs, Glasgow
Valve, Liverpool	Metallic Valve Co. , Colonial House, Water St., Liverpool
Vanner, London	Fraser & Chalmers, Ltd. , 3, London Wall Buildings, E.C.
Vaporiform, London	Vauxhall & West Hydraulic Engineering Co., Ltd. , 45, Leadenhall St., E.C.
Vaporize, London	Caird & Rayner , 777, Commercial Rd., Limehouse, E.
Vauxhall, Manchester	Craven Brothers, Ltd. , Vauxhall Works, Osborne St., Manchester
Venator, London	Hunter & English , Bow, E.
Ventilator, London	Keith James, & Blackman Co., Ltd. , Farringdon Avenue, E.C.
Verity, London	Veritys , 31 and 32, King St., W.C.
Vernon Guest, Soho, Smethwick	Vernon & Guest , Soho, Smethwick, near Birmingham
Vickers, Leeds	Vickers Benjn. R., & Sons , Leeds
Vickers, London	Vickers Sons & Maxim, Ltd. , 28, Victoria St., Westminster, S.W.
Vickers, Sheffield	Vickers Sons & Maxim, Ltd. , River Don Works, Sheffield
Vigilantia, London	Aird Jos. , 46, Queen Victoria St., E.C.
Vigilantia, Tipton	Aird Jos. , Wrot. Iron and Steel Tube Works, Great Bridge, Staffs.
Vires, Liverpool	Brown W. B., & Co. (Bankhall) , Ltd., Globe Works, Bankhall, Liverpool
Virgolina, London	Veithardt & Hall , 41, Eastcheap, E.C.
Viscosity, London	Trier Bros. , 1, Gt. George St., Westminster, S.W.
Voidance, London	Hughes & Lancaster , 16, Victoria St., Westminster, S.W.
Voider, London	Williams J. Arthur , 92, Hatton Garden, E.C.
Vulcan, Liverpool	Henderson & Glass , Iron Merchants, Liverpool
Vulcan, Paisley	Fullerton, Hodgart & Barclay, Ltd. , Vulcan Foundry and [Engine Wks., Paisley]
Vulpes, Leeds	Leeds Forge Company, Ltd. , Leeds
Walker, Bristol	Avonside Engine Co. , Bristol
Waterside, Ipswich	Ransomes & Rapier, Ltd. , Waterside Ironworks, Ipswich
Watertanks, London	Kennicott Water Softener Co. , 29, Great St. Helen's, E.C.
Watsons, Newcastle	Watson Henry, & Sons , High Bridge Works, Newcastle-on-Tyne
Waygood, London	Waygood & Co., Ltd. , Falmouth Rd., S.E.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Webb, Combs	Webb & Son, Combs Tannery, Stowmarket
Wedge, Leeds	Kaye Jos., & Sons, Ltd., Lock Works, Leeds
Weigh, Leeds	Denison Saml., & Son, Ltd., Far Hunslet, Leeds, S.
Weldless, Birmingham ..	Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham
Westinghouse, London..	Westinghouse Brake Co., 82, York Rd., King's Cross, N
Whitefield, Glasgow	Ross & Duncan, Govan, Glasgow [Manchester
Whitworth, Openshaw	Armstrong Sir W. G., Whitworth & Co., Ltd., Openshaw Works,
Wicksteed, Kettering	Wicksteed Charles, & Co., Lawson St., Kettering
Wiggins, Minories, London ..	Wiggins F., & Sons, 102 and 108, Minories, E.
Willans, Rugby	Willans & Robinson, Ltd., Rugby, Warwickshire
Willcox, Southwark St., Ldn.	Willcox W. H., & Co., Ltd., 23, Southwark St., S E
Winby, London	Heinrich, Winby & Co., 20, King William St., E.C.
Windlass, Glasgow	Napier Bros., Ltd., 100, Hyde Park St., Glasgow
Witwy, London	Witty & Wyatt, Ltd., 88, Leadenhall St., E.C.
Woodfield, Liversedge..	Fleming, Birkby & Goodall, Ltd., Woodfield Mills, Liversedge
Woodite, Mitcham	Woodite Works, Mitcham Common, Surrey
Wright, Tipton	Wright Jos., & Co., Tipton, Staffordshire
 Yarrow, London	 Yarrow & Co., Ltd., Isle of Dogs, Poplar, E.
 Zadig, London	 Zadig C. A., & Co., 73, Queen Victoria St., E.C.
Zero, Derby	Haslam Foundry & Engineering Co., Ltd., Derby
Zero, Derby	Pontifex & Wood, Ltd., Union Foundry, Derby

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"ENGINEERING" DIRECTORY.

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No. 64.—JULY, 1917.
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COMPILED AND CLASSIFIED
FROM THE
CURRENT ADVERTISEMENTS
IN
"ENGINEERING;"
TOGETHER WITH THE
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS
OF THE ADVERTISERS,
ALSO
GLOSSARIES FOR THE USE OF FOREIGN BUYERS.

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Offices:

"ENGINEERING," LIMITED,  
35 & 36, BEDFORD STREET, STRAND, LONDON, W.C. 2.

[ENTRÉD AT STATIONERS' HALL.]

Over **70,000** Copies of this Directory are distributed gratuitously  
every year throughout the World. 

# NOTICE.

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**T**HE following Directory is compiled entirely from the Advertisement columns of "ENGINEERING," and is sent gratuitously to the principal employers and shippers of machinery at home and abroad, to Foreign and British Consuls, and to the Heads of Departments of the most important railways throughout the world; also to the Members and Associates of the Institutions of Civil and Mechanical Engineers, the Iron and Steel Institute, and the other leading Scientific Societies having any connection with the Engineering Trades. Thus, in addition to the advantages already secured to the advertisers in "ENGINEERING," by its large and influential circulation, special facilities are afforded for bringing them and probable purchasers into direct communication.

Full information as to the various articles comprised in this Directory will be found in the Advertisement Columns of "ENGINEERING." On page 5 of the Advertisement Sheets in each week's issue is an Alphabetical Index of the Advertisements in that particular number.

This Directory contains, amongst other matters, the Registered Telegraphic Address, Key to same, Telegraph Codes in use by Advertisers and their Telephone Numbers.

For the use of our Foreign Friends we have now added a Glossary of the Equivalents in French, Russian, Spanish, and Italian, of the headings under which articles advertised in "ENGINEERING" are classified in this Directory.

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*The Directory may be obtained gratis on application to the Publisher of*

**"ENGINEERING,"**

**35 AND 36, BEDFORD STREET, STRAND, LONDON, W.C. 2.**

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**For Advertisement and Subscription Rates, see page 3 of this Cover.**

# Telegraphic Address of "ENGINEERING,"

## ENGINEERING, WESTRAND, LONDON.

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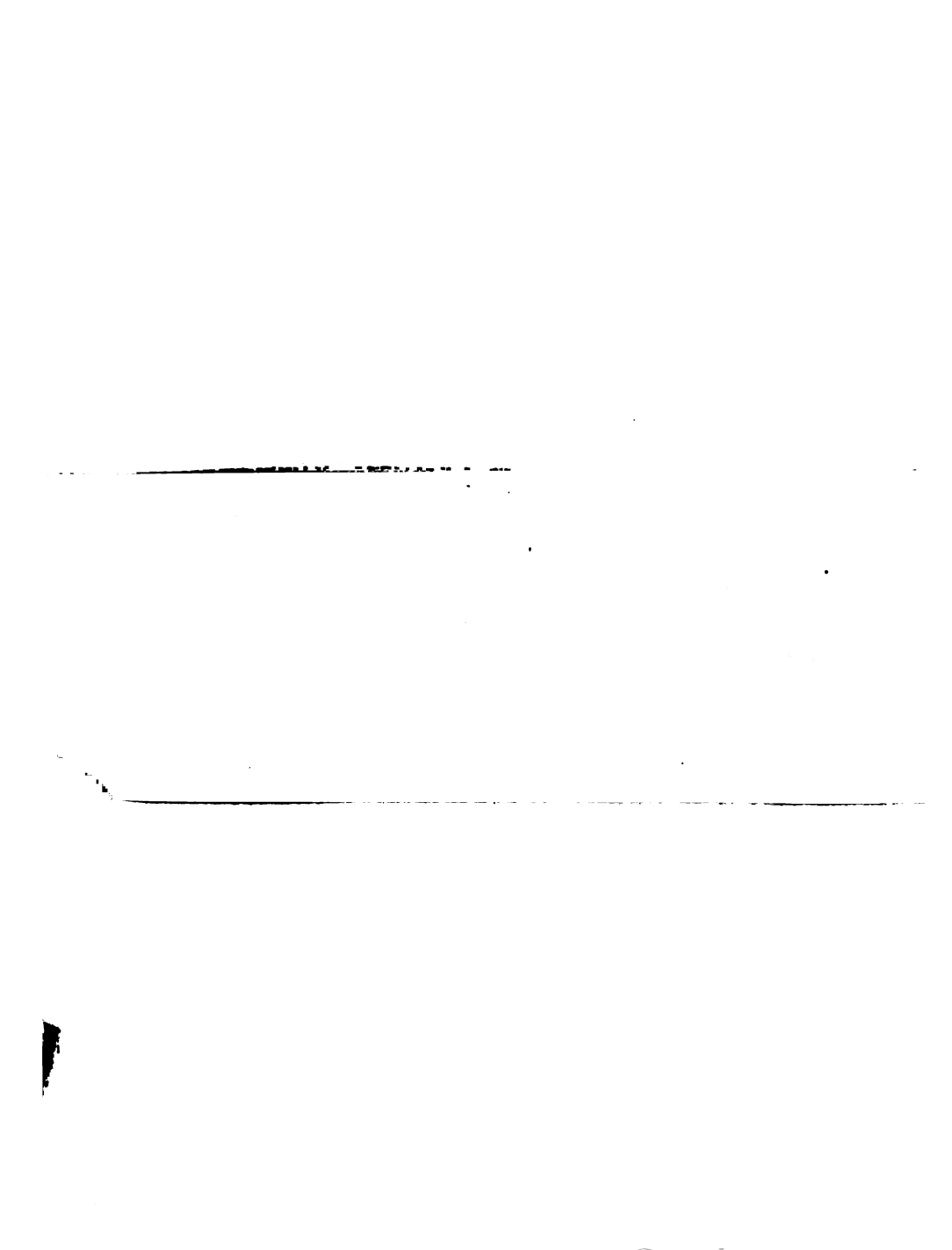
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No. 64.—JULY, 1917.
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COMPILED AND CLASSIFIED  
FROM  
THE CURRENT ADVERTISEMENTS  
IN  
“ENGINEERING,”  
TOGETHER WITH THE  
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS  
OF THE ADVERTISERS,  
ALSO  
GLOSSARIES FOR THE USE OF FOREIGN BUYERS.

—  
Office:  
“ENGINEERING,” LIMITED,  
35 & 36, BEDFORD STREET, STRAND, LONDON, W.C. 2.

For the use and assistance of our many foreign friends there will be found on the following pages GLOSSARIES in FRENCH (page 86), RUSSIAN (page 92), SPANISH (page 98), and ITALIAN (page 104), of the HEADINGS under which the articles advertised in "ENGINEERING" are Classified in this Directory.

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Dans le but de faciliter les recherches à nos nombreux lecteurs de l'Etranger, nous donnons la TRADUCTION en FRANÇAIS (page 86), RUSSE (page 92), ESPAGNOL (page 98), et ITALIEN (page 104), des EN-TÊTE sous lesquels sont classées dans la présente brochure, les annonces publiées dans "ENGINEERING."

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Для справокъ и въ помощь нашимъ многочисленнымъ друзьямъ за-границей мы помѣщаемъ въ концѣ этой брошюры СЛОВАРИ на французскомъ (стр. 86), русскомъ (стр. 92), испанскомъ (стр. 98), и итальянскомъ (стр. 104) языкахъ отдѣловъ, по которымъ распределены предметы, объявленія на которые были помѣщены въ „ENGINEERING.“

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Para servicio de nuestros numerosos lectores en los varios paises, damos una TRADUCCIÓN en FRANCES (página 86), Ruso (página 92), ESPAÑOL (página 98), é ITALIANO (página 104), de los TITULOS con que estan clasificados en este librejo los anuncios que publica "ENGINEERING."

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Onde facilitare la ricerca ai nostri lettori stranieri, abbiamo aggiunto a questo opuscolo la TRADUZIONE FRANCESE (página 86), RUSSA (página 92), SPAGNUOLA (página 98), E ITALIANA (página 104), dei NOMI DEGLI ARTICOLI sotto i quali sono classificati gli annunzi pubblicati nel "ENGINEERING."

The Publisher would esteem it a favour if persons using this Directory would make reference thereto in their Correspondence with Manufacturers.

# CLASSIFIED DIRECTORY

OF

## CURRENT ADVERTISEMENTS in "ENGINEERING."

### Accumulators (Electric).

Edison Accumulators, Ltd. 2 & 3, Duke St., S.W.1.

### Acetylene.—(See Welding & Cutting Plant).

### Aeroplanes, Seaplanes.

Aeronautical Institute of Great Britain .. 3, Arlington St., S.W.  
Norman Thompson Flight Co., Ltd. .... Middleton, Bognor  
Robey & Co., Ltd. .... Lincoln  
Vickers Limited .. Vickers House, Broadway, Westminster, S.W.  
White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight

### Agricultural Machinery.—(See also Engines and Steam Cultivating Machines.)

American Steel Export Co. Woolworth Bldgs., New York, U.S.A.  
Aveling & Porter, Ltd. .... Rochester  
Blackstone & Co., Ltd. .... Rutland Works, Stamford  
Davey, Paxman & Co., Ltd. .... Colchester  
Fowler J. & Co. (Leeds), Ltd. Leeds  
Garrett R. & Sons, Ltd. .... Leiston Works, Suffolk  
Hornsby R. & Sons, Ltd. Grantham  
Marshall, Sons & Co., Ltd. Gainsborough  
Ransomes, Sims & Jefferies, Ltd. .... Ipswich  
Robey & Co., Ltd. .... Lincoln  
Ruston Proctor & Co., Ltd. Sheaf Ironworks, Lincoln

### Air Compressors.—(See also Gas Compressors—High Pressure.)

Airostyle & Lithos, Ltd., .. 35, St. Bride St., Ludgate Circus, E.C.  
Allen W. H., Son, & Co., Ltd. Bedford  
Alley & Macellan, Ltd. .... Sentinel Works, Glasgow  
Bailey Sir W. H. & Co., Ltd. Salford, Manchester  
Broom & Wade, Ltd. .... High Wycombe  
Brotherhood P., Ltd. .... 53, Parliament St., S.W.  
Consolidated Pneumatic Tool Co., Ltd. .... Palace Chambers, 9, Bridge St., Westminster, S.W.  
Davey, Paxman & Co., Ltd. Colchester  
Entwistle & Gass, Ltd. Bolton  
Escher, Wyss & Co. .... 109, Victoria St., S.W.  
Fraser & Chalmers, Ltd. Moorgate Hall, Finsbury Pavement, E.C.2.  
Fullerton, Hodgart & Barclay, Ltd. Paisley, Scotland  
Hughes & Lancaster .. 46, Victoria St., S.W.  
Ingersoll-Rand Co. .... 165, Queen Victoria St., E.C.  
Manlove, Alliott & Co., Ltd. Nottingham  
Parsons C. A., & Co., Ltd. Heaton Wks., Newcastle-on-Tyne

### Air Compressors.—Continued.

Premier Cooler & Engineering Co., Ltd. .... Broadway Ct., Broadway, Westminster, S.W.  
Reavell & Co., Ltd. .... Ipswich  
Richards Geo., & Co., Ltd. .... Broadheath, near Manchester  
Robey & Co., Ltd. .... Lincoln  
Sandycroft, Limited .. Chester  
Seagers, Ltd. .... Dartford, Kent  
Siebe, Gorman & Co., Ltd. Neptune Works, Lambeth, S.E.  
Tilghman's Patent Sand Blast Co., Ltd. .... Broadheath, near Manchester  
Walker Bros. (Wigan), Ltd. Pagefield Iron Works, Wigan  
Westinghouse Brake Co., Ltd. York Rd., King's Cross, N.  
Worthington Pump Co., Ltd. .... Queen's House, Kingsway, W.C.

### Air Pumps.—(See also Condensers.)

British Westinghouse Electric & Manufacturing Co., Ltd. .... Trafford Pk., Manchester  
Caird & Rayner .. 777, Commercial Road, Limehouse, E.  
Carruthers J. H., & Co., Ltd. Polmadie Ironworks, Glasgow  
Cole, Marchant & Morley, Ltd. .... Bradford  
Dawson & Downie, Ltd. .... Clydebank  
Friedenthal F. .... River Engine Wks., Preston  
Hall J. P., & Sons .. Peterborough  
Manlove, Alliott & Co., Ltd. Nottingham  
Morrises Watson Co. Ltd. Scotland St., Glasgow  
Rees Roturbo Manufacturing Co., Ltd. .... Wolverhampton, Eng.  
Stott S. S., & Co. .... Haslingden, nr. Manchester  
Weir G. & J., Ltd. .... Cathcart, Glasgow  
Worthington Pump Co., Ltd. .... Queen's House, Kingsway, W.C.

### Alloys.—(See Metals, &c.)

### Aluminium and Aluminium Goods.

British Insulated & Helsby Cables, Ltd. .... Prescott, Lancashire  
Le Bas Edward, & Co. .... Dock House, Billiter St., E.C.  
London Aluminium Co., Ltd. .... Aston, Birmingham  
Ward Thos. W., Ltd. .... Albion Works, Sheffield

### Ammunition.

Firth Thos., & Sons, Ltd. .... Norfolk Works, Sheffield  
Vickers Limited .. Sheffield

**Anchors.**

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow

**Arbitrators.**

Kirk W., Price & Co. 46, Watling St., E.C.; and Albert Sq., Manchester

**Armour Plates.**

Beardmore W. & Co., Ltd. Glasgow  
Brown John, & Co., Ltd. Sheffield  
Carmell Laird & Co., Ltd. Sheffield  
Vickers Limited Sheffield

**Armoured Concrete.**—(See *Concrete, Reinforced.*)**Asbestos Goods, &c.**—(See also *Jointing Materials, and Packings—Engine and Hydraulic.*)

Bell's United Asbestos Co., Ltd. 59, Southwark St., S.B.  
Billington & Newton, Ltd. Longport, Staffordshire  
Cape Asbestos Co., Ltd. 27, King St., E.C.  
Crewwells Ltd. Wellington Mills, Bradford

**Ash Ejectors.**

Trewent F. J., & Proctor, Ltd. 43, Billiter Buildings, E.C.

**Astronomical Instruments.**—(See *Instruments—Electrical, Surveying, &c.*)**Auctioneers, Valuers and Surveyors (Engineering).**

Fuller, Horsey, Sons and Cassell 11, Billiter Square, E.C.  
Kirk W., Price & Co. 46, Watling St., E.C.; and Albert Sq., Manchester  
Knight & Partners, Ltd. 27, Old Queen St., S.W.  
Radford R. Heber, Son and Squire 15, St. James Row, Sheffield

**Axles.**

American Steel Export Co. Woolworth Bldgs., New York, U.S.A.  
Beardmore W. & Co., Ltd. Glasgow  
Bessemer Henry, & Co., Ltd. Sheffield  
Birmingham Railway Carriage & Wagon Co. Ltd. Smethwick, Birmingham  
Brown John, & Co. Ltd. Sheffield  
Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
Glasgow Railway Engineering Co., Ltd. Govan, Glasgow  
Hadfields Limited. Hecla Works, Sheffield  
Hurst, Nelson & Co., Ltd. Motherwell, N.B.  
Vickers Limited Sheffield  
Vulcan Steel Products Co. 120, Broadway, New York, U.S.A.

**Barges and Lighters (Iron and Steel).**—(See also *Launches and Yachts, Motor Boats, and Ship-builders.*)

Alley & MacLellan, Ltd. Sentinel Works, Glasgow  
Thornycroft J. I., & Co., Ltd. Southampton  
Vosper & Co., Ltd. Broad St., Portsmouth  
Welf Conrad Haarlem, Holland  
White Samuel J., & Co., Ltd. East Cowes, Isle of Wight

**Barrows.**

Ash Joseph & Son Rea St. South, Birmingham  
Pollock, Macnab & Highgate Shettleston, Glasgow

**Bars (Steel and Iron).**

American Steel Export Co. Woolworth Bldgs., New York, U.S.A.  
Beardmore Wm., & Co., Ltd. Glasgow  
Bessemer Henry, & Co., Ltd. Sheffield  
Butterley Co., Ltd. Derby  
Columbia Steel & Engineering Co., Ltd. Regent House, Kingsway, W.C.  
Colville David, & Sons, Ltd. Motherwell, near Glasgow  
Glasgow Iron & Steel Co., Ltd. Wishaw  
Hadfields Limited. Hecla Works, Sheffield  
James Thos., & Co. Liverpool  
Leeds Forge Co., Ltd. Leeds  
Motherwell Iron & Steel Co. Motherwell, N.B.  
Scott Walter, Ltd. Leeds Steel Works, Leeds  
Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow  
Stringer Brothers. West Bromwich  
Vulcan Steel Products Co. 120, Broadway, New York, U.S.A.

**Bearings (Ball and Roller).**—(See also *Plummer Blocks.*)

Broom & Wade, Ltd. High Wycombe  
Crofts (Engineers), Ltd. Empire Works, Bradford  
Electric & Ordnance Accessories Co., Ltd. Aston, Birmingham  
Hoffmann Manufacturing Co., Ltd. Chelmsford  
Ransome A., & Co., Ltd. Stanley Works, Newark-on-Trent  
Skefko Ball Bearing Co., Ltd. 28, Victoria St., Westminster, S.W.  
S.R.O. Ball Bearing Co. 115, Southwark St., S.E.

**Bearings (Thrust and Footstep).**

Broom & Wade, Ltd. High Wycombe  
Crofts (Engineers), Ltd. Empire Works, Bradford

**Belt Fasteners.**

Lash Robert H. Letchworth, Herts.  
Stone J. B., & Co., Ltd. 135, Finsbury Pavement, E.C.  
Thomas & Bishop 37, Tabernacle St., E.C.

**Belt Treatment.**

Thomas & Bishop 37, Tabernacle St., E.C.

**Belting (Leather, Canvas, &c.).**

Cole Henry A., & Co., Ltd. Coronet Works, Liverpool  
Gutta Percha & Rubber, Ltd. Toronto, Canada  
Hendry James Bridgeton, Glasgow  
India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. Silvertown, E.  
Lewis & Tylor, Ltd. Cardiff, England  
Reddaway F., & Co., Ltd. Pendleton, Manchester  
(Camel Brand) 121, New North Rd., N.  
Stevens H. J., & Son Glasgow  
Tulis John, & Son, Ltd. Stowmarket  
Webb & Son (Combs.), Ltd. 32-38, Southwark St., S.E.  
Willcox W. H., & Co., Ltd.

**Bleaching Machinery.**

Edmeston A., & Sons Patricroft, nr. Manchester  
Entwistle & Gass, Ltd. Bolton

**Blowers.**—(See *Engines—Blowing, Fans and Blowers, and Ventilators.*)

**Boats.**—(See *Barges, &c., Motor Boats, and Ship-builders.*)

**Boiler Circulators.**

**Boiler Compositions.**—(See *Disincrustants.*)

**Boiler Coverings.**—(See *Non-conducting Compositions.*)

**Boiler Furnaces.**

|                                    |    |                             |
|------------------------------------|----|-----------------------------|
| Bennis Ed., & Co., Ltd.            | .. | Bolton                      |
| Brown John, & Co., Ltd.            | .. | Sheffield                   |
| Dunkin Co., Ltd. (The Bryan)       | .. | Chesterfield                |
| Dowson & Mason Gas Plant Co., Ltd. | .. | Levenshulme, Manchester     |
| Leeds Forge Co., Ltd.              | .. | Leeds                       |
| Power Gas Economy Co.              | .. | 50, Wellington St., Glasgow |

**Boiler Inspection and Insurance Societies.**

|                                               |    |                                  |
|-----------------------------------------------|----|----------------------------------|
| London & Lancashire Fire Insurance Co., Ltd.  | .. | 155, Leadenhall St., E.C.        |
| Manchester Steam Users' Association           | .. | 9, Mount St., Manchester         |
| National Boiler & General Insurance Co., Ltd. | .. | St. Mary's Parsonage, Manchester |

**Boiler Manholes.**

|                            |    |                        |
|----------------------------|----|------------------------|
| Leeds Forge Co., Ltd.      | .. | Leeds                  |
| McNeil C., Ltd.            | .. | Glasgow                |
| Piggott Thos., & Co., Ltd. | .. | Springhill, Birmingham |

**Boiler Mountings.**

|                                               |    |                                  |
|-----------------------------------------------|----|----------------------------------|
| Bailey Sir W.H. & Co., Ltd.                   | .. | Salford, Manchester              |
| Bell's United Asbestos Co., Ltd.              | .. | 594 Southwark St., S.E.          |
| Billington & Newton, Ltd.                     | .. | Longport, Staffordshire          |
| Birkett T. M., & Sons, Ltd.                   | .. | Hanley, Staffordshire            |
| Blakesborough J., & Sons, Ltd.                | .. | Brighouse                        |
| Brundrit Joseph                               | .. | 14, Water St., Liverpool         |
| Cockburns Limited                             | .. | Cardonald, Glasgow               |
| Crosby Valve & Engineering Co., Ltd.          | .. | 147, Queen Victoria St., E.C.    |
| France & Morgan                               | .. | Govan, Glasgow                   |
| Green & Boulding, Ltd.                        | .. | 28, New Bridge St., E.C.         |
| Hopkinson J., & Co., Ltd.                     | .. | Huddersfield                     |
| Howden James, & Co., Ltd.                     | .. | Scotland St., Glasgow            |
| Jenkins Bros., Ltd.                           | .. | 95, Queen Victoria St., E.C.     |
| Lunken Company, Ltd.                          | .. | 35, Great Dover St., S.E.        |
| National Boiler & General Insurance Co., Ltd. | .. | St. Mary's Parsonage, Manchester |
| Piggott Thos., & Co., Ltd.                    | .. | Springhill, Birmingham           |
| Royles Limited                                | .. | Irlam, near Manchester           |
| Thornycroft J. I., & Co., Ltd.                | .. | Southampton                      |
| Turnbull Alex., & Co., Ltd.                   | .. | Bishopbriggs, Glasgow            |

**Boiler Plates.**—(See *Plates, Iron & Steel.*)

**Boiler Sealing Appliances.**

|               |    |                                 |
|---------------|----|---------------------------------|
| Gilman, Frank | .. | 62, Lightwoods Hill, Birmingham |
|---------------|----|---------------------------------|

**Boiler Suits.**—(See *Overalls, &c.*)

**Boilers (Steam).**—(See also *Boilers—Water-tube.*)

|                                            |    |                                                  |
|--------------------------------------------|----|--------------------------------------------------|
| Abbott & Co. (Newark), Ltd.                | .. | Newark-on-Trent                                  |
| Bellamy John, Ltd.                         | .. | Millwall, E.                                     |
| Bodley Bros. & Co.                         | .. | Breter                                           |
| Burnet L., & Co.                           | .. | Govan, Glasgow                                   |
| Chaplin, Alex., & Co.                      | .. | Govan, Glasgow                                   |
| Clarke, Chapman & Co., Ltd.                | .. | Gateshead-on-Tyne                                |
| Clayton Son, & Co., Ltd.                   | .. | Hunslet, Leeds                                   |
| Cochran & Co., Annan, Ltd.                 | .. | Annan, N.B.                                      |
| Coltman Walter W., & Co., Ltd.             | .. | Central Boiler Works, Loughborough               |
| Dalglish A. & W.                           | .. | Pollakshaws, Glasgow                             |
| Danks, H. & T. (Netherton), Ltd.           | .. | Netherton, Dudley                                |
| Davey, Paxman & Co., Ltd.                  | .. | Colchester                                       |
| Davy Brothers, Ltd.                        | .. | Sheffield                                        |
| Day, Summers & Co., Ltd.                   | .. | Southampton                                      |
| Escher, Wyss & Co.                         | .. | 109, Victoria St., S.W. Leeds                    |
| Fowler J., & Co. (Leeds) Ltd.              | .. | Manchester                                       |
| Galloways Ltd.                             | .. | Leiston Works, Suffolk                           |
| Garrett R., & Sons, Ltd.                   | .. | Grantham                                         |
| Grantham Boiler & Crank Co., Ltd.          | .. | Grantham                                         |
| Hawthorn R. & W., Leslie & Co., Ltd.       | .. | Newcastle-on-Tyne                                |
| Hayes Edward                               | .. | Stony Stratford, Wolverton                       |
| Hindley E. S., & Sons                      | .. | 11, Queen Victoria St., E.C.                     |
| Hudson Thomas, Ltd.                        | .. | Coatbridge, N.B.                                 |
| Lumby, Son & Wood, Ltd.                    | .. | Halifax                                          |
| Manlove, Allott & Co., Ltd.                | .. | Nottingham                                       |
| Marshall, Sons & Co., Ltd.                 | .. | Gainsborough                                     |
| McKie & Baxter                             | .. | Govan, Glasgow                                   |
| Merryweather & Sons, Ltd.                  | .. | 63, Long Acre, W.C.                              |
| Mumford A. G., Ltd.                        | .. | Colchester                                       |
| North-Eastern Marine Engineering Co., Ltd. | .. | Northumberland Works, Wallsend-on-Tyne           |
| Penman & Co., Ltd.                         | .. | Strathclyde St., Glasgow                         |
| Piggott Thos., & Co., Ltd.                 | .. | Birmingham                                       |
| Plenty & Sons, Ltd.                        | .. | Newbury, Berks.                                  |
| Ransomes, Sims & Jefferies, Ltd.           | .. | Ipswich                                          |
| Robey & Co., Ltd.                          | .. | Lincoln                                          |
| Ross & Duncan                              | .. | Glasgow                                          |
| Rowan David, & Co.                         | .. | 231, Elliott St., Glasgow                        |
| Ruston, Proctor, & Co., Ltd.               | .. | Sheaf Ironworks, Lincoln                         |
| Smulders A. F.                             | .. | Schiedam, Holland                                |
| Sulzer Bros.                               | .. | 30, Norfolk St., Strand, W.C.                    |
| Sun Shipbuilding Co.                       | .. | 1428 So., Penn Square, Philadelphia, Pa., U.S.A. |
| Tangyes Limited                            | .. | Birmingham                                       |
| Thompson John                              | .. | Wolverhampton                                    |
| Thornycroft J. I., & Co., Ltd.             | .. | Southampton                                      |
| Tinker, Shenton & Co., Ltd.                | .. | Hyde, near Manchester                            |
| Vosper & Co., Ltd.                         | .. | Portsmouth                                       |
| Wallsend Slipway & Engineering Co., Ltd.   | .. | Wallsend                                         |
| White J. Samuel, & Co., Ltd.               | .. | East Cowes, Isle of Wight                        |
| Wilson William, & Co.                      | .. | Lilybank Boiler Works, Glasgow                   |
| Yarrow & Co., Ltd.                         | .. | Glasgow                                          |
| Yates & Thom, Ltd.                         | .. | Canal Works, Blackburn                           |

**Boilers (Water-tube).**

British Niclausse Boiler Co., Ltd. } Caxton House, Westminster, S.W.  
 Clarke, Chapman & Co., Ltd. } Gateshead-on-Tyne  
 Davey, Paxman & Co., Ltd. } Colchester  
 Howden James, & Co., Ltd. } Glasgow  
 Hudson Thomas, Ltd. } Coatbridge, N.B.  
 Marshall, Sons & Co., Ltd. } Gainsborough  
 Mumford A. G., Ltd. } Colchester  
 Normand Augustin } 67, Rue du Perrey, Le Havre, France

Penman & Co., Ltd. } Strathclyde St., Glasgow  
 Richardson, Westgarth & Co., Ltd. }  
 Savery T. A., & Co., Ltd. } Birmingham  
 Smulders A. F. } Schiedam, Holland  
 Thompson John } Wolverhampton  
 Thornycroft L., & Co., Ltd. } Southampton  
 Vosper & Co., Ltd. } Portsmouth  
 White J. Samuel, & Co., Ltd. } East Cowes, Isle of Wight  
 Wilson William, & Co. } Lillbank Boiler Works, Glasgow  
 Yarrow & Co., Ltd. } Glasgow [Glasgow]

**Bolt and Nut-Making Machinery.**

Platt Samuel, Ltd. } Wednesbury

**Bolts, Rivets, Nuts, Screws, &c.—(See also Lock Nuts & Nut-Locking Appliances.)**

Armstrong, Stevens & Son, Ltd. } Whittall St., Birmingham  
 Bayliss, Jones & Bayliss, Ltd. } Wolverhampton  
 Beebe A. } Wednesbury  
 Dunford & Elliott (Sheffield), Ltd. } Attercliffe Wharf, Sheffield  
 Grover & Co., Ltd. } Carpenter's Rd, Stratford, E.

KirbyBanks Screw Co., Ltd. } Meadow Lane, Leeds  
 MacLellan P. & W., Ltd. } Clutha Works, Glasgow  
 Marsden S., & Son, Ltd. } London Rd., Manchester  
 Mountford Fredk., Ltd. } Lifford, Birmingham  
 Phoenix Bolt & Nut Co. } Handsworth, near Birmingham  
 Positive Lock Washer Co. } 118-122, James Watt St., Glasgow  
 Wiley James, & Sons, Ltd. } Darlaston

**Boring and Sinking Tools and Machinery for Shafts and Wells—(See also Rock Drills, and Well Engineers.)**

Stewarts & Lloyds, Ltd. } 41, Oswald St., Glasgow

**Boxes.**

Southern James W. & Son, Ltd. } Store St., Manchester

**Brake and Clutch Lining.**

Cresswells, Ltd. } Bradford  
 Herbert Froud Co., Ltd. } Sovereign Mills, Chapel-en-le-Frith

**Brakes (Railway), &c.**

Barclay Andrew, Sons & Co., Ltd. } Caledonia Works, Kilmarnock  
 Birmingham Railway Carriage & Wagon Co., Ltd. } Smethwick, Birmingham  
 Consolidated Brake & Engineering Co., Ltd. } 41, Moorfields, E.C.  
 Davies & Metcalfe, Ltd. } Romiley, nr. Manchester  
 Herbert Froud Co., Ltd. } Chapel-en-le-Frith

**Brakes (Railway), &c.—Continued.**

Vacuum Brake Co., Ltd. } 32, On. Victoria St., E.C.  
 Westinghouse Brake Co., Ltd. } 82, York Rd., King's Cross, N.

**Brake Solenoids.—(See Solenoids, Brake.)****Brakes (Water).—(See Dynamometers.)****Brass Founders and Brass Finishers.**

Aston Brass Co. & Whitehouse, Ltd. } Aston Lane, Birmingham  
 Bailey Sir W. H., & Co., Ltd. } Salford, Manchester  
 Bell's United Asbestos Co., Ltd. } 59½, Southwark St., S.E.  
 Billington & Newton, Ltd. } Longport, Staffordshire  
 Blundell's London Copper & Brass Works (1910), Ltd. } West India Dock Rd. E.  
 Birkett T. M., & Sons, Ltd. } Hanley, Staffordshire  
 Bodley Brothers & Co. } Exeter  
 Broughton Copper Co., Ltd. } Manchester  
 Crosby Valve & Engineering Co., Ltd. } 147, Queen Victoria St., E.C.  
 Delta Metal Co., Ltd. } East Greenwich, S.B.  
 France & Morgan } Govan, Glasgow  
 Hooper Edgar A. J., Ltd. } 21-31, New Summer St., Birmingham

Hurst, Nelson & Co., Ltd. } Motherwell, N.B.  
 Lunken Company, Ltd. } 35, Great Dover St., S.E.  
 North-Eastern Marine Engineering Co., Ltd. } Northumberland Works  
 Piggott Thos., & Co., Ltd. } Wallsend-on-Tyne  
 Pulsometer Engineering Co., Ltd. } Springhill, Birmingham  
 Steven & Struthers } Reading  
 Stewart Duncan, & Co., Ltd. } Kelvinhaugh, Glasgow  
 Thornycroft J. I., & Co., Ltd. } London Rd. Ironworks  
 Victoria Brass Foundry Co., Ltd. } Southampton [Glasgow  
 Wallsend Slipway & Engineering Co., Ltd. } Bonnington Rd., Edinburgh  
 Wallsend } Wallsend

**Brass Rods and Sections.**

Bolton Thomas, & Sons, Ltd. } 57, Bishopsgate, E.C.2.  
 Delta Metal Co., Ltd. } East Greenwich, S.B.  
 McKechnie Brothers, Ltd. } Rotton Park St., Birmingham

**Brewery Plant.**

Blair, Campbell & McLean, Ltd. } Woodville St., Govan  
 Pontifex & Wood, Ltd. } Glasgow  
 Union Foundry, Derby

**Brick and Tile-Making Machinery.**

Alexander, Herbert & Co., Ltd. } Leeds  
 Bodley Bros., & Co. } Exeter  
 Bradley & Craven, Ltd. } Westgate Common Foundry, Wakefield

**Brightside Foundry & Eng. Co., Ltd.**

Johnson Wm., & Sons } Sheffield  
 (Leeds), Ltd. } Castleton Foundry, Armley, Leeds

**Bridge Foundation Cylinders.—(See also Structural Engineering.)**

Clay Cross Co., Ltd. } Clay Cross, near Chesterfield  
 Head, Wrightson & Co., Ltd. } Thornaby-on-Tees

**Bridges.—(See Structural Engineering.)****Briquette Machinery.**

Briquette Machinery, Ltd. } Charnmouth St., Leeds

**Boilers.**

Brown John, & Co., Ltd. . . . Sheffield  
 Cammell Laird & Co., Ltd. . . . Sheffield  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 MacLellan P. & W., Ltd. . . . Clutha Works, Glasgow  
 Midland Railway Carriage  
 and Wagon Co., Ltd. . . . Midland Works, Birmingham  
 Turton T., & Sons, Ltd. . . . Sheaf Works, Sheffield  
**Buildings (Iron and Steel).**—(See *Structural Engineering*.)

**Buildings (Portable).**

Smith & Pearson, Ltd. . . . Newcomen Ironworks,  
 Dublin

**Buoys (Iron and Steel).**

Bellamy John, Ltd. . . . Millwall, B.  
 Brown, Lenox & Co. . . . Millwall, B.  
 (London), Ltd. . . . Lincoln  
 Robey & Co., Ltd. . . . 9, Ouseburn, Newcastle-  
 toward T., & Co., Ltd. . . . on-Tyne

**Burners (Gas).****Cabinets (Engineers').**

Haddon John, & Co. . . . Salisbury Sq., Fleet St.,  
 E.C.

**Cable Laying Machinery.**

Clarke, Chapman & Co., } Victoria Works, Gates-  
 Ltd. . . . head-on-Tyne

**Cables (Electric Light, Telegraph and Telephone).**

British Insulated & Helsby  
 Cables, Ltd. . . . Prescott, Lancashire  
 India Rubber, Gutta Percha  
 & Telegraph Works Co.,  
 Ltd. . . . Silvertown, B.  
 Siemens Bros., & Co., Ltd. . . . Woolwich, S.B.

**Cast-iron Foundry.**

Brightside Foundry & En-  
 gineering Co., Ltd. . . . Sheffield  
 Jackson Boilers, Ltd. . . . 83, Kirkstall Rd., Leeds  
 Wright John, & Co. . . . Essex Wks, Birmingham

**Capstans (Steam, Hydraulic & Electric).**

Berry Henry, & Co., Ltd. . . . Croydon Works, Leeds  
 Booth Joseph, & Bros., Ltd. . . . Rodley, Leeds  
 Campbell & Calderwood . . . Soho Engine Wks, Paisley  
 Clarke, Chapman & Co., Ltd. . . . Gateshead-on-Tyne  
 Sandycroft Limited . . . Chester  
 Turnbull Alex., & Co., Ltd. . . . Bishopbriggs, Glasgow

**Carburettors and Vaporisers.**

Thornycroft J. I., & Co., Ltd. . . . Basingstoke

**Carriage (Railway) Builders.**

Birmingham Railway  
 Carriage & Wagon Co.,  
 Ltd. . . . Smethwick, Birmingham  
 Glasgow Railway Engineer-  
 ing Co., Ltd. . . . Govan, Glasgow  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 MacLellan P. & W., Ltd. . . . Clutha Works, Glasgow  
 Midland Railway Carriage  
 and Wagon Co., Ltd. . . . Midland Works, Birmingham  
 Pickering R. Y., & Co., Ltd. . . . Wishaw, nr. Glasgow

**Carriage (Railway) Fittings.**

Kaye Joseph, & Sons, Ltd. . . . 93, High Holborn, W.C.

**Carriage-Making Machinery.**

Blackall F. S. . . . Woolworth Tower, New  
 York, U.S.A.  
 Taylor & Challen, Ltd. . . . Birmingham

**Case-Hardening Materials.**

British Carbonizing Co., } Vulcan Works, Glou-  
 Ltd. . . . cester  
 Canning W., & Co. . . . Lustre Wks., Birmingham

**Cask-Making Machinery.**

Ransome A., & Co., Ltd. . . . Newark-on-Trent

**Castings (Aluminium).**

Albion Foundry . . . Browning St., Lady-  
 wood, Birmingham

**Aluminium Plant & Vessel**

Co., Ltd. . . . Point Pleasant, S.W.18  
 Birkett T. M., & Sons, Ltd. . . . Hanley, Staffordshire

Blundell's London Copper  
 & Brass Works (1910), Ltd. . . . West India Dock Rd., E.  
 Hooper Edgar A. J., Ltd. . . . 21-31, New Summer St.,  
 Birmingham

White E. T., & Co. . . . Windsor House, Kings-  
 way, W.C.

**Castings (Iron).**—(See also *Pipe Foundries*.)

Alley & MacLellan, Ltd. . . . Sentinel Works, Glasgow  
 Ashmore, Benson, Pease &  
 Co., Ltd. . . . Stockton-on-Tees

Beardmore W., & Co., Ltd. . . . Glasgow  
 Bodley Brothers & Co. . . . Exeter

Brandon Bridge-Building  
 Co., Ltd. . . . Brandon Works, Mother-  
 well

Butterley Co., Ltd. . . . Derby  
 Clay Cross Co., Ltd. . . . Clay Cross, nr. Chester-  
 Daniel S. A., Ltd. . . . Birmingham field

Entwistle & Gass, Ltd. . . . Bolton  
 Ham, Baker & Co., Ltd. . . . Langley Green, Birming-  
 ham

Head Wrightson & Co., Ltd. . . . Thornaby-on-Tees  
 Herbert Alfred, Ltd. . . . Coventry

Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 Lilleshall Co., Ltd. . . . Oakengates, Shropshire

Marsden H. R., Ltd. . . . Soho Foundry, Leeds  
 Midland Railway Carriage  
 and Wagon Co., Ltd. . . . Midland Works, Birming-  
 ham

North-Eastern Marine En-  
 gineering Co., Ltd. . . . Northumberland Works,  
 Wallsend-on-Tyne

Piggott Thos., & Co., Ltd. . . . Springhill, Birmingham  
 Ransome A., & Co., Ltd. . . . Newark-on-Trent

Robey & Co., Ltd. . . . Lincoln  
 Roe & Harrison, Ltd. . . . Derby

Rose, Downs & Thompson  
 Shaw W., & Co. . . . Old Foundry, Hull  
 Thornycroft J. I., & Co., Ltd. . . . Middlesbro'-on-Tees  
 Tickle John, & Co., Ltd. . . . Southampton

Unbreakable Pulley & Mill } Providence Works, West  
 Gearing Co., Ltd. . . . Bromwich  
 Vickers Limited . . . 48, West Gorton, Man-  
 chester

Wallsend Slipway & Engi-  
 neering Co., Ltd. . . . Sheffield

Wallwork Henry, & Co., Ltd. . . . Wallsend  
 Westland Foundry . . . Manchester

White E. T., & Co. . . . Westland Siding, Yeovil,  
 G.W.R.

Windsor House, Kings-  
 way, W.C.

**Castings (Malleable Iron).**  
 Fletcher George, & Co., Ltd. . . . Litchurch, Derby  
 Hadfields Limited . . . Hecla Works, Sheffield

Hale Thomas L., Ltd. . . . Walsall, Staffordshire  
 Le Bas Edward, & Co. . . . Dock House, Billiter St.,  
 Birmingham B.C.

Tangyes Limited . . . Sheffield  
 Vickers Limited . . . Manchester

Wallwork Henry, & Co., Ltd. . . . Manchester

**Castings (Steel).—(See also Manganese Steel Castings and Forgings.)**

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Allen Edgar, & Co., Ltd. . .           | Sheffield                       |
| American Steel Foundries               | 5, Laurence Pountney Hill, B.C. |
| Ashmore, Benson, Pease & Co., Ltd. . . | Stockton-on-Tees                |
| Balmforth T., & Co., Ltd.              | Luton                           |
| Beardmore W., & Co., Ltd.              | Glasgow                         |
| Bessemer Henry, & Co., Ltd.            | Sheffield                       |
| Brandon Bridge-Building Co., Ltd. . .  | Brandon Works, Motherwell       |
| Brown John, & Co., Ltd. . .            | Sheffield                       |
| Cammell Laird & Co., Ltd.              | Sheffield                       |
| Colville David, & Sons, Ltd.           | Motherwell, nr. Glasgow         |
| Cottam Edwin & Co., Ltd.               | Cardiff and Rotherham           |
| Fairley James, & Sons                  | Birmingham                      |
| Firth Thos., & Sons, Ltd. . .          | Norfolk Works, Sheffield        |
| Hale Thomas L., Ltd. . .               | Walsall, Staffordshire          |
| Holcroft's Steel Foundry Co., Ltd. . . | Bilston, South Staffordshire    |
| Hadfields Limited. . .                 | Hecla Works, Sheffield          |
| Marsden H. R., Ltd. . .                | Soho Foundry, Leeds             |
| Mild Steel Castings, Ltd. . .          | Haymills, Birmingham            |
| Osborn Samuel, & Co., Ltd.             | Clyde Steel Works, Sheffield    |
| Shaw W., & Co. . .                     | Middlesbro'-on-Tees             |
| Steel Co. of Scotland, Ltd.            | 23, Royal Exchange Sq., Glasgow |
| Stewarts & Lloyds, Ltd.                | 41, Oswald St., Glasgow         |
| Vickers Limited . . .                  | Sheffield                       |

**Cement.**

|                             |                                          |
|-----------------------------|------------------------------------------|
| Greaves, Bull & Lakin, Ltd. | Harbury, Leamington                      |
| Ironite Co., Ltd. . . .     | 11, Old Queen Street, Westminster, S.W.1 |
| Kaye & Co., Ltd. . . .      | Southern Works, Rugby                    |
| Marted & Knott . . .        | Burnett Avenue, Hull                     |
| Metalline Cement Co. . .    | 112, Bath St., Glasgow                   |
| Notcutt, Walter, Ltd. . .   | 8, White St., B.C.                       |

**Cement-Making Plant.**

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Allen Edgar, & Co., Ltd. . .            | Sheffield                        |
| Aveling & Porter, Ltd. . .              | Rochester                        |
| Fletcher Geo., & Co., Ltd.              | Derby                            |
| Johnson Wm., & Sons (Leeds), Ltd. . . . | Castleton Foundry, Armley, Leeds |

**Centrifugal Drying Machines.—(See also Cream Separators, and Hydro-Extractors.)**

|                             |                                 |
|-----------------------------|---------------------------------|
| Broadbent T., & Sons, Ltd.  | Chapel Hill, Huddersfield       |
| Manlove, Allott & Co., Ltd. | Nottingham                      |
| Pott, Cassels & Williamson  | Motherwell, nr. Glasgow         |
| Tullis D. & J., Ltd. . .    | Glasgow                         |
| Watson, Laidlaw & Co., Ltd. | 98, Dundas St. (South), Glasgow |

**Cesspool Exhanster.**

|                           |                     |
|---------------------------|---------------------|
| Merryweather & Sons, Ltd. | Greenwich Rd., S.E. |
|---------------------------|---------------------|

**Chains (Gearing).**

|                                      |                          |
|--------------------------------------|--------------------------|
| Brampton Bros., Ltd. . .             | Birmingham               |
| Coventry Chain Co., Ltd. . .         | Coventry                 |
| Renold Hans, Ltd. . .                | Progress Wks, Manchester |
| Westinghouse Brake Co., Ltd. . . . . | 82, York Rd., N.         |

**Chemical Works (Plant for).**

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Alley & MacLellan, Ltd. . .             | Sentinel Works, Glasgow       |
| Blair, Campbell & McLean, Ltd. . .      | Woodville St., Govan, Glasgow |
| Downson & Mason Gas Plant Co., Ltd. . . | Levenshulme, Manchester       |
| Manlove, Allott & Co., Ltd.             | Nottingham                    |
| Piggott Thos., & Co., Ltd. . .          | Birmingham                    |
| Thompson John . . .                     | Wolverhampton                 |

**Chimneys.**

|                              |                         |
|------------------------------|-------------------------|
| Bellamy John, Ltd. . .       | Millwall, B.            |
| Clayton Son, & Co., Ltd. . . | Hunslet, Leeds          |
| Custodis Limited . . .       | 119, Victoria St., S.W. |
| Steel Pipe Company, Ltd. . . | Kirkcaldy, N.B.         |

**Chucks.—(See also Machine Tools.)**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Canadian-American Machinery Co., Ltd. . .   | 8, Bouverie St., E.C. 4     |
| Jacobs Manufacturing Co.                    | Hartford, Conn., U.S.A.     |
| Rapid Magnetising Machine Co., Ltd. . . . . | Crescent, Birmingham        |
| Robertson Thos. R. . .                      | 7, Hurst St., Liverpool     |
| Taylor Charles (Birmingham), Ltd. . . . .   | Bartholomew Sq., Birmingham |

**Clocks.—(See Watches & Clocks.)****Cloth Finishing Machinery.****Clutches (Friction).**

|                                                   |                                     |
|---------------------------------------------------|-------------------------------------|
| Broadbent Thos., & Sons, Ltd. . . . .             | Chapel Hill, Huddersfield           |
| Crofts (Engineers), Ltd. . .                      | Empire Works, Bradford              |
| Edmeston Archibald, & Sons, Ltd. . . . .          | Bolton                              |
| Entwistle & Gass, Ltd. . .                        | Patricroft, nr. Manchester          |
| Herbert Frood Co., Ltd. . .                       | Chapel-en-le-From                   |
| Reddaway F. & Co., Ltd. . .                       | Pendleton, Manchester               |
| Unbreakable Pulley & Mill Gearing Co., Ltd. . . . | 48, West Gorton, Manchester         |
| Wigglesworth F. & Co., Ltd.                       | Clutch Works, Shipley, nr. Bradford |

**Coal Handling Plant.—(See also Conveyors & Elevators.)**

|                              |                                         |
|------------------------------|-----------------------------------------|
| Allen Edgar, & Co., Ltd. . . | Sheffield                               |
| Goodall, Clayton & Co., Ltd. | Hunslet (Pepper Rd.), Leeds             |
| Hayward Co., The . . .       | Hudson Terminal Bldg., New York, U.S.A. |
| Head, Wrightson & Co., Ltd.  | Thornaby-on-Tees                        |
| Jenkins W. J., & Co., Ltd.   | Beehive Works, Retford                  |
| Reddaway F. & Co., Ltd. . .  | Pendleton, Manchester                   |
| Strachan & Henshaw, Ltd.     | Bristol                                 |
| Werf Conrad . . . .          | Haarlem, Holland                        |

**Cocks.—(See Valves, Gas, Steam, Water, &c.)****Coining Machinery.**

|                            |            |
|----------------------------|------------|
| Taylor & Challen, Ltd. . . | Birmingham |
|----------------------------|------------|

**Coke Rams.**

|                         |         |
|-------------------------|---------|
| Ransomes & Rapier, Ltd. | Ipswich |
|-------------------------|---------|



**Colliery Plant.**—(See also *Haulage Plant, Mining Machinery, and Pumps.*)

Alley & MacLellan, Ltd. . . Sentinel Works, Glasgow  
 Barclay Andrew Sons & Co., Ltd. . . Caledonia Works, Kilmarnock  
 Bennis Ed., & Co. Ltd. . . Bolton  
 Brown Hoisting Machinery Co. . . Cleveland, Ohio, U.S.A.  
 Clay Cross Co., Ltd. . . Clay Cross, nr. Chesterfield  
 Clayton Son, & Co., Ltd. . . Hunstlet, Leeds  
 Fletcher George & Co., Ltd. . . Litchurch, Derby  
 Goodall, Clayton & Co., Ltd. . . Leeds  
 Hadfields Limited . . . Hecla Works, Sheffield  
 Hathorn, Davey & Co., Ltd. . . Leeds  
 Head, Wrightson & Co., Ltd. . . Thornaby-on-Tees  
 Heenan & Froude, Ltd. . . Worcester Eng. Wks, Worcester

Hornsby R., & Sons, Ltd. . . Grantham  
 Lillleshall Co., Ltd. . . Oakengates, Shropshire  
 Lidgerwood Mfg. Co. . . Friars House, New Broad St., E.C.  
 Reddaway F., & Co., Ltd. . . Pendleton, Manchester  
 Robey & Co., Ltd. . . Lincoln  
 Sandycroft Limited . . . Chester  
 Siemens Brothers Dynamo Works, Ltd. . . Caxton House, Westminster, S.W.

**Colliery Proprietors.**

Brown John, & Co., Ltd. . . Sheffield  
 Clay Cross Co., Ltd. . . Clay Cross, nr. Chesterfield  
 Glasgow Iron & Steel Co., Ltd. . . Wishaw Iron & Steel Works, Wishaw

**Compasses.**

Negretti & Zambra . . . 38, Holborn Viaduct, E.C.

**Composition for Covering Boilers, &c.**—(See *Non-conducting Compositions.*)**Compressed Gases (Bottles and Fittings for).**

Allen-Liversidge, Ltd. . . 106, Victoria St., S.W.

**Concrete Mixers.**—(See also *Mixers.*)

Hardy & Padmore, Ltd. . . Worcester  
 Johnson Wm., & Sons . . . Castleton Foundry, (Leeds), Ltd. . . Armley, Leeds  
 Ransome-ve Mehr Machinery Co., Ltd. . . 505, Brunswick House, Westminster, S.W.  
 Stothert & Pitt, Ltd. . . Bath  
 Wotham, Bates & Goode, (Inc.) . . 17, Battery Place, New York City, U.S.A.

**Concrete (Plain and Reinforced).**

British Reinforced Concrete Engineering Co., Ltd. . . 1, Dickinson St., Manchester  
 Expanded Metal Co., Ltd. . . York Mansions, York St., Westminster, S.W.  
 Wilfley Co., Ltd. . . Salisbury House, London Wall, E.C. 2.

**Condensers (Evaporative).**

Ledward & Beckett, Ltd. . . Broadway Chambers, Westminster, S.W.

**Condensers (Fresh Water)**—(See *Distilling (Water) Apparatus.*)**Condensers (for Steam Engines).**

Allen W. H. Son, & Co., Ltd. . . Bedford  
 British Westinghouse Electric & Mfg. Co., Ltd. . . Trafford Park, Manchester

**Condensers (for Steam Engines).**—Continued.

Caird & Rayner . . . 777, Commercial Rd., E.  
 Campbell & Calderwood, . . . Soho Works, Paisley.  
 Carruthers J. H., & Co., Ltd. . . Polmadie Scotland Ironworks, Glasgow  
 Cole, Marchent & Morley, Ltd. . . Bradford  
 Escher, Wyss & Co. . . 109, Victoria St., S.W.  
 Fraser Douglas, & Sons, Ltd. . . Arbroath, Scotland  
 Friedenthals, Ltd. . . Preston  
 Hall J. P., & Sons, Ltd. . . Peterborough  
 Harris Patent Feed-Water Filter (1910), Ltd. . . 24, Grainger St. West, Newcastle-on-Tyne  
 Hayward Tyler & Co., Ltd. . . 99, Queen Victoria St., E.C.

Hick, Hargreaves & Co., Ltd. . . Soho Works, Bolton.  
 Klein Engineering Co. . . 94, Market St., Manchester (1908), Ltd. . . ter  
 Ledward & Beckett, Ltd. . . Broadway Chambers, S.W.  
 Mirlees Watson Co., Ltd. . . Scotland St., Glasgow  
 Parsons C. A., & Co., Ltd. . . Newcastle-on-Tyne  
 Piggett Thos., & Co., Ltd. . . Springhill, Birmingham  
 Premier Cooler & Engineering Co., Ltd. . . Broadway Ct., Broadway, Westminster, S.W.  
 Pulsometer Engineering Co., Ltd. . . Nine Elms Ironworks, Reading

Richardsons, Westgarth and Co., Ltd. . . Hartlepool  
 Robey & Co., Ltd. . . Lincoln  
 Royleys Limited . . . Irlam, near Manchester  
 Simpson James, & Co., Ltd. . . 101, Grosvenor Rd., S.W.  
 Stott S. S., & Co. . . Haslingden, near Manchester  
 Thornycroft J. I., & Co., Ltd. . . Southampton  
 Weir G. & J., Ltd. . . Cathcart, Glasgow  
 Worthington Pump Co., Ltd. . . Queen's House, Kingsway, W.C.

Wright's Forge & Engineering Co., Ltd. . . Tipton, Staffs.

**Constructional.**—(See *Structural Engineering.*)**Controllers (Electrical).**—(See *Motor Starters.*)**Conveyors and Elevators.**—(See also *Coal Handling Plant.*)

Allen Edgar, & Co., Ltd. . . Sheffield  
 Barry, Henry & Co., Ltd. . . Aberdeen  
 Bennis Ed., & Co., Ltd. . . Bolton  
 Brown Hoisting Machinery Co. . . Cleveland, Ohio, U.S.A.  
 Bullivant & Co., Ltd. . . 72, Mark Lane, E.C.  
 Conveyor & Elevator Co., . . . Accrington, Lancashire  
 Fige, Ltd. . . . Haarlem, Holland  
 Fletcher George, & Co., Ltd. . . Litchurch, Derby  
 Gibbons Bros., Ltd. . . Dudley, Worc.  
 Goodall, Clayton & Co., Ltd. . . Hunstlet, Leeds  
 GuttaPercha & Rubber, Ltd. . . Toronto, Canada  
 Head, Wrightson & Co., Ltd. . . Thornaby-on-Tees  
 Heenan & Froude, Ltd. . . Worcester  
 Jenkins W. J., & Co., Ltd. . . Beehive Works, Retford  
 Lidgerwood Mfg. Co. . . Friars House, New Broad St., E.C.  
 Marsden H. R., Ltd. . . Soho Foundry, Leeds  
 Pott, Cassels & Williamson . . . Motherwell, nr. Glasgow  
 Ransome-ve Mehr Machinery Co., Ltd. . . 505, Brunswick House, Westminster, S.W.

**Conveyors and Elevators.**—(See also *Coal Handling Plant*).—*Continued.*

Reddaway F. & Co., Ltd. Pendleton, Manchester  
 Rowson, Drew & Clydesdale, Ltd. Upper Thames St., E.C.  
 Strachan & Henshaw, Ltd. Bristol

**Cooling Towers.**—(See *Water Cooling Plant*.)**Copper Ingots, Bars and Sheets.**

Bolton Thomas, & Sons, Ltd. 57, Bishopsgate, E.C.2.  
 Broughton Copper Co., Ltd. Manchester

**Coppersmiths.**

Birmingham Battery and Metal Co. Birmingham  
 Blair, Campbell & McLean, Ltd. Woodville St., Govan,  
 Glasgow  
 Blundell's London Copper & Brass Works (1910) Ltd. West India Dock Rd., E.  
 Delta Metal Co., Ltd. East Greenwich, S.E.  
 North-Eastern Marine Engineering Co., Ltd. Northumberland Works,  
 Wallsend-on-Tyne

**Copying Presses.**

Daniell S. A., Ltd. Edward St., Parade, Birmingham

**Corrugated Boiler Furnaces.**

Leeds Forge Co., Ltd. Leeds

**Cotton Presses.**—(See also *Hydraulic Presses*.)

Berry Henry, & Co., Ltd. Croydon Works, Leeds  
 Coles H. J., Ltd. London Crane Works,  
 Derby  
 Fawcett, Preston & Co., Ltd. 17, York St., Liverpool  
 Nasmyth, Wilson & Co., Ltd. Bridgewater Foundry,  
 Patricroft, near Manchester  
 Piggott Thos., & Co., Ltd. Birmingham  
 Rice & Co. (Leeds), Ltd. Elland Rd., Leeds  
 Stewart Duncan, & Co., Ltd. London Rd. Ironworks,  
 Glasgow  
 Tangyes, Ltd. Birmingham

**Counters for Revolutions.**

Avery W. & T., Ltd. Soho Foundry, Birmingham  
 Selson Engineering Co., Ltd. 85, Queen Victoria St.,  
 E.C. 4.

**Couplings (Railway).**

Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham  
 Gibbins R. C., & Co. Berkley St., Birmingham  
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.

**Couplings (Shaft).**

Böving & Co., Ltd. Imperial B'dings, Kingsway, W.C.  
 Platt Samuel, Ltd. Wednesbury  
 Power Plant Co., Ltd. West Drayton, Middx.  
 Richards George, & Co., Ltd. Broadheath, nr. Manchester  
 Smith & Grace Screw Boss Pulley Co., Ltd. Thrapston  
 Taylor & Challen, Ltd. Birmingham  
 Unbreakable Pulley & Mill Gearing Co., Ltd. 48, West Gorton, Manchester  
 Wigglesworth F. & Co., Ltd. Clutch Works, Shipley,  
 near Bradford

**Cranes, Hoisting Machines, Travellers, Winches, &c.**—(See also *Lifts*.)

Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks,  
 Bridgeton, Glasgow  
 Berry Henry, & Co., Ltd. Croydon Works, Leeds  
 Booth Joseph, & Bros., Ltd. Rodley, Leeds  
 Brecknell, Munro & Rogers, Ltd. Thrissell St., Bristol  
 British Electric Plant Co., Ltd. 78, St. Vincent St.,  
 Glasgow  
 Broadbent Thos., & Sons, Ltd. Chapel Hill, Huddersfield  
 Brown Hoisting Machinery Co. Cleveland, Ohio, U.S.A.  
 Chambers, Scott & Co., Ltd. Motherwell  
 Chaplin Alex., & Co., Ltd. Govan, Glasgow  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Coles H. J., Ltd. London Crane Works,  
 Derby  
 Cowans, Sheldon & Co., Ltd. Carlisle  
 Craven Brothers (Manchester), Ltd. Vauxhall Wks., Reddish,  
 Stockport  
 East Ferry Road Engineering Works Co., Ltd. Millwall, E.  
 Electromotors, Ltd. Openshaw, Manchester  
 Fidge, Ltd. Haarlem, Holland  
 Gibbins R. C., & Co. Berkley St., Birmingham  
 Grafton & Co. Bedford  
 Grive John, & Co. Motherwell, Scotland  
 Heywood S. H., & Co., Ltd. Reddish  
 Higginbottom & Mannock, Ltd. West Gorton, Manchester  
 Holt & Willetts Lion Works, Cradley  
 Heath  
 Jack Alexander, & Co. Motherwell  
 Lidgetwood Mfg. Co. Friars House, New Broad  
 St., E.C.  
 Marshall, Fleming, & Co., Ltd. Motherwell, N.B.  
 Morris Herbert, Ltd. Empress Works, Lough-  
 boro', Leicestershire  
 Musgrave Bros. Leeds  
 Priestman Brothers, Ltd. Holderness Foundry, Hull  
 Ransomes & Rapier, Ltd. Ipswich  
 Rice & Co. (Leeds), Ltd. Elland Rd., Leeds  
 Rose, Downs & Thompson, Ltd. Old Foundry, Hull  
 Royce Limited Trafford Pk., Manchester  
 Russell George, & Co., Ltd. Motherwell, nr. Glasgow  
 Selson Engineering Co., Ltd. 85, Queen Victoria St.,  
 E.C.  
 Smith Thos., & Sons Rodley, nr. Leeds  
 Smulders A. F. Schiedam, Holland  
 Stewart Duncan & Co., Ltd. London Rd. Ironworks,  
 Glasgow  
 Stothert & Pitt, Ltd. Bath  
 Strachan & Henshaw, Ltd. Bristol  
 Sunderland Forge & Engineering Co., Ltd. Pallion, Sunderland  
 Tangyes Limited Birmingham  
 Taylor & Hubbard Leicester  
 Vaughan Crane Co., Ltd. Openshaw, Manchester  
 Waygood-Otis, Ltd. Falmouth Rd., S.E.  
 Werf Conrad Haarlem, Holland  
 Whitakers (Engineers), Ltd. Horsforth, Leeds  
 Willetts Charles, Junr., Ltd. Cradley Heath, Staffs.

**Cranes, Hoisting Machines, Travellers, Winches, &c.—**

(See also Lifts).—Continued.

Wilson John H., & Co. . . . Dock House, Birkenhead  
 Wonham, Bates & Goode (Inc.) . . . . . 17, Battery Place, New York City, U.S.A.  
 Youngs . . . . . Ryland St. Works, Birmingham

**Crank Axles.**

Bessemer Henry, & Co., Ltd. . . . Sheffield  
 Firth Thos., & Sons, Ltd. . . . Norfolk Works, Sheffield  
 Hadfields Limited . . . . . Hecla Works, Sheffield  
 Vickers Limited . . . . . Sheffield

**Crankshafts.**

Beardmore Wm., & Co., Ltd. . . . Glasgow  
 Bessemer Hy., & Co., Ltd. . . . Sheffield  
 Brown John, & Co., Ltd. . . . Sheffield  
 Cammell Laird & Co., Ltd. . . .  
 Dennistown Forge Co. . . . Dumbarton  
 Fife Forge Co., Ltd. . . . . Kirkcaldy, Scotland  
 Firth Thos., & Sons, Ltd. . . . Norfolk Works, Sheffield  
 Hadfields Limited . . . . . Hecla Works, Sheffield  
 Thornycroft J. I., & Co., Ltd. . . Southampton  
 Vickers Limited . . . . . Sheffield

**Cream Separators.**

Pott, Cassells & Williamson . . . Motherwell, nr. Glasgow

**Crucibles.**

Davis Furnace Co. . . . . 54, Rathbone Pl., W. I.  
 Worcester Royal Porcelain Co., Ltd. . . . . Worcester

**Crushing Machinery.—(See Disintegrators, Grinding Mills, and Stonebreakers.)****Cupolas.**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. . . Birmingham  
 Wonham, Bates & Goode (Inc.) . . . . . 17, Battery Place, New York City, U.S.A.

**Cutting-off Machines.**

Southwark Foundry & Machine Co. . . . . Philadelphia, U.S.A.  
 Swinney Brothers, Limited . . . Morpeth, Northumberland  
 Taylor Charles (Birmingham), Ltd. . . . . Bartholomew Sq., Birmingham  
 Universal Machinery Corporation, Ltd. . . . . 326, Old St. (Shoreditch), E.C.  
 Winn Charles, & Co. . . . . Granville Place, Birmingham

**Destructors.**

Dowson & Mason Gas Plant Co. . . . . Levenshulme, Manchester  
 Heenan & Froude, Ltd. . . . . Destructor Dept., Worcester Engineering Works, Worcester  
 Manlove, Alliot & Co., Ltd. . . Nottingham  
 Meldrums Limited . . . . . Timperley, nr. Manchester  
 New Destructor Co., Ltd. . . . . Walter House, Bedford St., Strand, W.C.

**Dials.**

Cooke, James, & Son . . . { 8 & 9, Wrentham St., Birmingham

**Disintegrants.**

Bell's United Asbestos Co., Ltd. . . . . 393, Southwark St., S.E.  
 Tranter's W. J., Boiler Appliance Co. . . . . Tipton, Staffordshire

**Disinfectors.**

Manlove, Alliot & Co., Ltd. . . . Nottingham  
 Tullis D. & J., Ltd. . . . . Kilbowie Ironworks, nr. Glasgow

**Disintegrators.—(See also Grinding Mills, Ore Crushing, and Stonebreakers.)**

Allen Edgar, & Co., Ltd. . . . Sheffield  
 Bradley Pulverizer Co. . . . . 37, Walbrook, E.C.  
 Goodall, Clayton & Co., Ltd. . . Hunslet, Leeds  
 Hardy & Padmore Ltd. . . . . Worcester  
 Johnson Wm., & Sons } Castleton Foundry, (Leeds), Ltd. . . . . Armley, Leeds  
 Hadfields Limited . . . . . Hecla Works, Sheffield  
 Marsden H. R., Ltd. . . . . Soho Foundry, Leeds  
 Patent Lightning Crusher Co., Ltd. . . . . 142, Rosebery Av., Gray's Inn Rd., E.C.  
 Pratchitt Bros. . . . . Denton Ironworks, Carlisle  
 Sturtevant Engineering Co., Ltd. . . . . 147, Queen Victoria St., E.C.  
 Wood Hugh, & Co., Ltd. . . . 65, Fenchurch St., E.C.

**Distillery Plant.**

Blair, Campbell & McLean, Ltd. . . . . Woodville St., Govan, Glasgow  
 Dowson & Mason Gas Plant Co., Ltd. . . . . Levenshulme, Manchester  
 Fawcett, Preston & Co., Ltd. . . Liverpool  
 Mirrieles Watson Co., Ltd. . . . Scotland St., Glasgow  
 Pontifex & Wood, Ltd. . . . . Union Foundry, Derby

**Distilling (Water) Apparatus.—(See also Evaporators.)**

Caird & Rayner . . . . . 777, Commercial Rd., B.  
 Chaplin Alex., & Co. . . . . Govan, Glasgow  
 Kirkaldy John, Ltd. . . . . 101, Leadenhall St., E.C. 3

Mirrieles Watson Co., Ltd. . . . Scotland St., Glasgow  
 Royles Limited . . . . . Irlam, near Manchester

**Diving Apparatus.**

Siebe, Gorman & Co., Ltd. . . . Neptune Works, S.B.

**Doors (Watertight).**

Stone J., & Co., Ltd. . . . . Deptford, S.B.

**Draught.—(See Forced and Induced Draught.)****Draw Benches.**

Platt Samuel, Ltd. . . . . Wednesbury

**Drawing Instruments, &c.**

American Lead Pencil Co. . . . 173 & 175, Lower Clapton Rd., N.E.

Halden J., & Co., Ltd. . . . 8, Albert Sq., Manchester  
 Hall B. J., & Co., Ltd. . . . Chalfont Hse., Gt. Peter St., Westminster, S.W.  
 Kern & Co. . . . . Aarau, Switzerland  
 Negretti & Zambra . . . . . 38, Holborn Viaduct, E.C.

United Metal Engraving Co., Ltd. . . . 40, High Bridge, New-castle-on-Tyne

**Drawings, Tracings, &c.—(See also Photography & Materials, &c.)**

Halden J., & Co., Ltd. . . . 8, Albert Sq., Manchester

**Dredgers (Suction).**

Ferguson Brothers (Port) Glasgow, Ltd. . . . . Newark Works, Port Glasgow  
 Gwynnes, Ltd. . . . . Hammersmith Ironworks, W.

Lobnitz & Co., Ltd. . . . . Renfrew, Scotland

Simons W., & Co., Ltd. . . . . Renfrew, Scotland

**Dredging Machines.**

- Bucyrus Co. .. .. 13, Victoria St., Westminster, S.W.  
 Coles H. J., Ltd. .. .. London Crane Works, Derby  
 Cornforth Ernest E. .. Stoke-on-Trent  
 Ferguson Brothers (Port Glasgow), Ltd. .. .. Glasgow  
 Fleming & Ferguson, Ltd. .. Paisley, N.B.  
 Gwynnes, Ltd. .. .. Hammersmith Ironwks., W.  
 Hadfields Limited .. .. Hecla Works, Sheffield  
 Hayward Co., The .. .. Hudson Terminal Bldg., New York, U.S.A.  
 Lobnitz & Co., Ltd. .. Renfrew, Scotland  
 Priestman Bros., Ltd. .. Holderness Foundry, Hull  
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull  
 Simons W., & Co., Ltd. .. Renfrew, N.B.  
 Smit L., & Zoon .. .. Kinderdijk, Holland  
 Smulders A. F. .. .. Schiedam, Holland  
 Stothert & Pitt, Ltd. .. Bath  
 Vickers Limited .. .. Barrow-in-Furness  
 Werf Conrad .. .. Haarlem, Holland  
 Western Wheeled Scraper Co. .. .. Aurora, Illinois, U.S.A.  
 Westwood, Joseph, & Co., Ltd. .. Napier Yard, Millwall, E.  
 Whitaker D. .. .. 1, Union St., Leicester

**Drills (Twist).**

- Stead J., & Co., Ltd. .. Manor Works, Sheffield

**Drop Forgings.—(See Forgings—Drop.)****Drop Hammers.—(See Hammers—Drop.)****Drums.—(See Tanks and Drums).****Drying Apparatus.—(See also Centrifugal Drying Machines, and Hydro-Extractors.)**

- Electro-Metals, Ltd. .. Imperial Buildings, 56, Kingsway, W.C.  
 Keith James, & Blackman } 27, Farringdon Avenue, Co., Ltd. .. .. B.C.  
 Manlove, Allott & Co., Ltd. .. Nottingham  
 Musgrave & Co., Ltd. .. St. Ann's Ironworks, Belfast  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.

**Dust Collectors.—(Mills, Factories, Breweries, &c.)**

- British Vacuum Cleaner Co., Ltd. .. Dept. 5/20, Parson's Green Lane, S.W.  
 Keith James, & Blackman Co., Ltd. .. 27, Farringdon Av., E.C.  
 Ransome A., & Co., Ltd. .. Stanley Wks., Newark-on-Trent  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.

**Dust Shields for Bearings.**

- Vickers B. R., & Sons, Ltd. .. Leeds

**Dynamometers.**

- Heenan & Froude, Ltd. .. Worcester

**Dynamos.—(See Electric Lighting and Power Plant.)****Ebonite.—(See also India-rubber Goods and Woodite for Steam, &c., Packings.)**

- India Rubber, Gutta Percha & Telegraph Works Co., Ltd. .. Silvertown, E.  
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester

**Econometers (Fuel).**

- Clay Cross Co., Ltd. .. Clay Cross, near Chesterfield

**Electric Accumulators.—(See Accumulators.)****Electric Bells and Signals.**

- Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester

**Electric Cables.—(See also Telegraph Wire and Cables.)**

- British Insulated & Helsby Cables, Ltd. .. .. Prescott, Lancashire  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. .. Silvertown, E.

**Electric Lighting and Power Plant.—(See also Motor Starters & Accessories, and Switchboards & Accessories.)**

- Allen W. H., Son & Co., Ltd. .. Bedford  
 Alley & Macellan, Ltd. .. Sentinel Works, Glasgow  
 Brecknell, Munro & Rogers, Ltd. .. Thrissell St., Bristol  
 British Electric Plant Co., Ltd. .. 78, St. Vincent St., Glasgow  
 British Insulated & Helsby Cables, Ltd. .. Prescott, Lancashire  
 British Thomson-Houston Co., Ltd. .. Rugby  
 Clarke, Chapman & Co., Ltd. .. Gateshead-on-Tyne  
 Dick, Kerr & Co., Ltd. .. Abchurch Yard, Cannon St., E.C.  
 Electric & Ordnance Accessories Co., Ltd. .. Aston, Birmingham  
 Electromotors, Ltd. .. Openshaw, Manchester  
 Fowler J., & Co. (Leeds), Ltd. .. Leeds  
 Hall J. P., & Co., Ltd. .. Oldham  
 Hartnell Wilson, & Co., Ltd. .. Kirkstall Rd., Leeds  
 Holmes J. H., & Co. .. Newcastle-upon-Tyne  
 Howden James, & Co., Ltd. .. Scotland St., Glasgow  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. .. Silvertown, E.  
 Lister R. A., & Co., Ltd. .. Dursley  
 Mawdsley's, Ltd. .. Dune Works, Dursley, Glasgow [Glos.  
 Mavor & Coulson, Ltd. .. Newcastle-on-Tyne  
 Parsons C. A., & Co., Ltd. .. Levenford Works, Dumfries [Dumfries  
 Paul Matthew, & Co., Ltd. .. Thornbury Rd., Bradford  
 Phoenix Dynamo Manufacturing Co., Ltd. .. Trafford Park, Manchester  
 Royce Ltd. .. Chester  
 Sandycroft, Ltd. .. Caxton House, Westminster, S.W.  
 Siemens Brothers Dynamo Works, Ltd. .. 147, Queen Victoria St., E.C.  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.  
 Sun Electrical Co., Ltd. .. 118 & 120, Charing Cross [Rd., W.C.  
 Sunderland Forge & Engineering Co., Ltd. .. Pallion, Sunderland  
 Thornycroft J. I., & Co., Ltd. .. Caxton House, Westminster, S.W.  
 Vickers Limited .. .. Sheffield

**Electric Motors.**

- Allen W. H., Son & Co., Ltd. .. Bedford  
 Beyer, Peacock & Co., Ltd. .. Gorton Foundry, Manchester  
 Booth Joseph, & Bros., Ltd. .. Rodley, Leeds  
 British Electric Plant Co., Ltd. .. 78, St. Vincent St., Glasgow

**Electric Motors.—Continued.**

|                                                         |                                              |
|---------------------------------------------------------|----------------------------------------------|
| British Thomson-Houston Co., Ltd.                       | Rugby                                        |
| British Westinghouse Electric & Manufacturing Co., Ltd. | Trafford Pk., Manchester                     |
| Brook E. E., Ltd.                                       | Colne Rd., Huddersfield                      |
| Clarke, Chapman & Co., Ltd.                             | Gateshead-on-Tyne                            |
| Drake & Gorham, Ltd.                                    | 1, Felix St., Westminster Bridge Rd., S.E.1. |

|                                           |                           |
|-------------------------------------------|---------------------------|
| Electric & Ordnance Accessories Co., Ltd. | Aston, Birmingham         |
| Electric Control, Ltd.                    | Bridgeton, Glasgow        |
| Electromotors, Ltd.                       | Openshaw, Manchester      |
| Hall J. P., & Co., Ltd.                   | Oldham                    |
| Hartnell Wilson, & Co., Ltd.              | Kirkstall Rd., Leeds      |
| Higgs Bros.                               | Balsall Heath, Birmingham |

|                                                        |                            |
|--------------------------------------------------------|----------------------------|
| Holmes J. H., & Co.                                    | Newcastle-upon-Tyne        |
| India Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silvertown, E.             |
| Langdon-Davies Motor Co.                               | 110, Cannon St., E.C.      |
| Malcolm & Allan, Ltd.                                  | 499, Eglinton St., Glasgow |

|                  |                            |
|------------------|----------------------------|
| Mawdsley's, Ltd. | Zone Works, Dursley, Glos. |
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| Mavor & Coulson, Ltd. | 47, Broad St., Glasgow       |
| Parkinson F., & Co.   | Wells Works, Guiseley, Leeds |

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| Parsons C. A., & Co., Ltd.    | Newcastle-on-Tyne         |
| Phoenix Dynamo Mfg. Co., Ltd. | Thornbury Works, Bradford |

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| Sandycroft, Ltd.                    | Chester                         |
| Siemens Brothers Dynamo Works, Ltd. | Caxton House, Westminster, S.W. |

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| Sturtevant Engineering Co., Ltd. | 147, Queen Victoria St., E.C. |
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|                 |           |
|-----------------|-----------|
| Vickers Limited | Sheffield |
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**Electric Tools.**

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Consolidated Pneumatic Tool Co., Ltd. | Palace Chambers, 9, Bridge St., Westminster, S.W. |
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|                                     |                                             |
|-------------------------------------|---------------------------------------------|
| Westminster Tool & Electric Company | Suffolk House, Laurence Pountney Hill, E.C. |
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**Electrical Engineers.**

|                               |            |
|-------------------------------|------------|
| Allen W. H., Son, & Co., Ltd. | Bedford    |
| Barry, Henry & Co., Ltd.      | Aberdeen   |
| Beyer, Peacock & Co., Ltd.    | Manchester |

|                                 |                        |
|---------------------------------|------------------------|
| Brecknell, Munro & Rogers, Ltd. | Thriswell St., Bristol |
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|-----------------------------------------|---------------------|
| British Insulated & Helsby Cables, Ltd. | Prescot, Lancashire |
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|-----------------------------------|---------------------------------|
| British Thomson-Houston Co., Ltd. | Rugby                           |
| Clarke, Chapman & Co., Ltd.       | Gateshead-on-Tyne               |
| Dick, Kerr & Co., Ltd.            | Abchurch Yard, Cannon St., E.C. |

|                      |                                              |
|----------------------|----------------------------------------------|
| Drake & Gorham, Ltd. | 1, Felix St., Westminster Bridge Rd., S.E.1. |
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|-------------------------------------------|------------------------------|
| Electric & Ordnance Accessories Co., Ltd. | Aston, Birmingham            |
| Electric Control, Ltd.                    | Bridgeton, Glasgow           |
| Electromotors, Ltd.                       | Openshaw, Manchester         |
| Hall J. P., & Co., Ltd.                   | Oldham                       |
| Hartnell Wilson, & Co., Ltd.              | Kirkstall Rd., Leeds         |
| Hayward-Tyler & Co., Ltd.                 | 99, Queen Victoria St., E.C. |

|                     |                     |
|---------------------|---------------------|
| Holmes J. H., & Co. | Newcastle-upon-Tyne |
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**Electrical Engineers.—Continued.**

|                                                        |                                 |
|--------------------------------------------------------|---------------------------------|
| Igranic Electric Co., Ltd.                             | 147, Queen Victoria St., [E.C.] |
| India Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silvertown, E.                  |

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|-----------------------------|----------------------------|
| Low Archibald, & Sons, Ltd. | 28A, Renfield St., Glasgow |
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|------------------|----------------------------|
| Mawdsley's, Ltd. | Zone Works, Dursley, Glos. |
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|----------------------------------------|---------------------------|
| Mavor & Coulson, Ltd.                  | 47, Broad St., Glasgow    |
| Parsons C. A., & Co., Ltd.             | Newcastle-on-Tyne         |
| Phoenix Dynamo Manufacturing Co., Ltd. | Thornbury Works, Bradford |
| Royce, Ltd.                            | Trafford Park, Manchester |

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Sandycroft, Ltd.                    | Chester                            |
| Siemens Brothers Dynamo Works, Ltd. | Caxton House, Westminster, S.W.    |
| Sun Electrical Co., Ltd.            | 118 & 120, Charing Cross Rd., W.C. |

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|-------------------------------------|---------------------------------------------|
| Vickers Limited                     | Sheffield                                   |
| Westminster Tool & Electric Company | Suffolk House, Laurence Pountney Hill, E.C. |

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| Westminster Tool & Electric Company | Suffolk House, Laurence Pountney Hill, E.C. |
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| Westminster Tool & Electric Company | Suffolk House, Laurence Pountney Hill, E.C. |
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| Westminster Tool & Electric Company | Suffolk House, Laurence Pountney Hill, E.C. |
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**Elevators (Grain, Coal, &c.).—(See also Coal Handling Plant, and Conveyors & Elevators.)**

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Allen Edgar, & Co., Ltd.                    | Sheffield                       |
| Barry Henry, & Co., Ltd.                    | Aberdeen                        |
| Bennis Rd., & Co., Ltd.                     | Bolton                          |
| Coles H. J., Ltd.                           | London Crane Works, Derby       |
| Conveyor & Elevator Co.                     | Accrington, Lancashire          |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                    |
| Goodall, Clayton & Co., Ltd.                | Hunslet (Pepper Rd.), Leeds     |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.                       | Worcester                       |
| Marsden H. R., Ltd.                         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson                  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.                       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.                    | Pendleton, Manchester           |
| Smulders A. F.                              | Schiedam, Holland               |

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| Allen Edgar, & Co., Ltd.                    | Sheffield                       |
| Barry Henry, & Co., Ltd.                    | Aberdeen                        |
| Bennis Rd., & Co., Ltd.                     | Bolton                          |
| Coles H. J., Ltd.                           | London Crane Works, Derby       |
| Conveyor & Elevator Co.                     | Accrington, Lancashire          |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                    |
| Goodall, Clayton & Co., Ltd.                | Hunslet (Pepper Rd.), Leeds     |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.                       | Worcester                       |
| Marsden H. R., Ltd.                         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson                  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.                       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.                    | Pendleton, Manchester           |
| Smulders A. F.                              | Schiedam, Holland               |

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| Conveyor & Elevator Co.                     | Accrington, Lancashire          |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                    |
| Goodall, Clayton & Co., Ltd.                | Hunslet (Pepper Rd.), Leeds     |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.                       | Worcester                       |
| Marsden H. R., Ltd.                         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson                  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.                       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.                    | Pendleton, Manchester           |
| Smulders A. F.                              | Schiedam, Holland               |

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| Conveyor & Elevator Co.                     | Accrington, Lancashire          |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                    |
| Goodall, Clayton & Co., Ltd.                | Hunslet (Pepper Rd.), Leeds     |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.                       | Worcester                       |
| Marsden H. R., Ltd.                         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson                  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.                       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.                    | Pendleton, Manchester           |
| Smulders A. F.                              | Schiedam, Holland               |

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| Head, Wrightson & Co., Ltd. | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.       | Worcester                       |
| Marsden H. R., Ltd.         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.    | Pendleton, Manchester           |
| Smulders A. F.              | Schiedam, Holland               |

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| Head, Wrightson & Co., Ltd. | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.       | Worcester                       |
| Marsden H. R., Ltd.         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.    | Pendleton, Manchester           |
| Smulders A. F.              | Schiedam, Holland               |

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| Head, Wrightson & Co., Ltd. | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.       | Worcester                       |
| Marsden H. R., Ltd.         | Soho Foundry, Leeds             |
| Pott, Cassels & Williamson  | Motherwell, nr. Glasgow         |
| Priestman Bros., Ltd.       | 3, Laurence Pountney Hill, E.C. |
| Reddaway F., & Co., Ltd.    | Pendleton, Manchester           |
| Smulders A. F.              | Schiedam, Holland               |

**Emery and Emery Cloth, &c.**

|                          |                              |
|--------------------------|------------------------------|
| Oakey John, & Sons, Ltd. | Westminster Bridge Rd., S.E. |
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**Emery Grinding & Polishing Machinery.**

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Beyer, Peacock & Co., Ltd.            | Manchester                                        |
| Canadian-American Machinery Co., Ltd. | 8, Bouverie St., E.C. 4                           |
| Consolidated Pneumatic Tool Co., Ltd. | Palace Chambers, 9, Bridge St., Westminster, S.W. |
| Honeywill Bros.                       | 79, Mark Lane, E.C. 3.                            |
| Lash Robert H.                        | Leitchworth, Herts.                               |
| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
| Selson Engineering Co., Ltd.          | 85, Queen Victoria St., E.C.                      |
| Sterne L., & Co., Ltd.                | Crown Ironworks, Glasgow                          |
| Universal Machinery Corporation, Ltd. | 326, Old St. (Shoreditch), E.C.                   |
| Ward H. W., & Co., Ltd.               | Lionel St., Birmingham                            |
| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

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| Honeywill Bros.                       | 79, Mark Lane, E.C. 3.                            |
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| Morton & Weaver.                      | Cox St., Coventry                                 |
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| Morton & Weaver.                      | Cox St., Coventry                                 |
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| Honeywill Bros.                       | 79, Mark Lane, E.C. 3.                            |
| Lash Robert H.                        | Leitchworth, Herts.                               |
| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
| Selson Engineering Co., Ltd.          | 85, Queen Victoria St., E.C.                      |
| Sterne L., & Co., Ltd.                | Crown Ironworks, Glasgow                          |
| Universal Machinery Corporation, Ltd. | 326, Old St. (Shoreditch), E.C.                   |
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| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

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| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
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| Sterne L., & Co., Ltd.                | Crown Ironworks, Glasgow                          |
| Universal Machinery Corporation, Ltd. | 326, Old St. (Shoreditch), E.C.                   |
| Ward H. W., & Co., Ltd.               | Lionel St., Birmingham                            |
| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

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| Honeywill Bros.                       | 79, Mark Lane, E.C. 3.                            |
| Lash Robert H.                        | Leitchworth, Herts.                               |
| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
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| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

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| Lash Robert H.                        | Leitchworth, Herts.                               |
| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
| Selson Engineering Co., Ltd.          | 85, Queen Victoria St., E.C.                      |
| Sterne L., & Co., Ltd.                | Crown Ironworks, Glasgow                          |
| Universal Machinery Corporation, Ltd. | 326, Old St. (Shoreditch), E.C.                   |
| Ward H. W., & Co., Ltd.               | Lionel St., Birmingham                            |
| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

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| Beyer, Peacock & Co., Ltd.            | Manchester                                        |
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| Luke & Spencer, Ltd.                  | Canal Eng. Works, Altrincham                      |
| Morton & Weaver.                      | Cox St., Coventry                                 |
| Muir Wm., & Co., Ltd.                 | Sherbourne St., Manchester                        |
| Rowland B. R., & Co., Ltd.            | Reddish, nr. Manchester                           |
| Selson Engineering Co., Ltd.          | 85, Queen Victoria St., E.C.                      |
| Sterne L., & Co., Ltd.                | Crown Ironworks, Glasgow                          |
| Universal Machinery Corporation, Ltd. | 326, Old St. (Shoreditch), E.C.                   |
| Ward H. W., & Co., Ltd.               | Lionel St., Birmingham                            |
| Wisconsin Electric Co.                | Racine, Wisconsin, U.S.A.                         |

**Emery Wheels.**

|                            |                         |
|----------------------------|-------------------------|
| Morton & Weaver...         | Cox St., Coventry       |
| Rowland B. R., & Co., Ltd. | Reddish, nr. Manchester |
| Sterne L., & Co., Ltd.     | Crown Ironwks., Glasgow |
| Tattersall A. A. & Co.     | Blackburn               |

**Engine and Boiler Fittings.**

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Bailey Sir W. H., & Co., Ltd.                       | Salford, Manchester                 |
| Barclay Andrew, Sons & Co., Ltd.                    | Caledonia Works, Kilmarnock         |
| Bell's United Asbestos Co., Ltd.                    | 59½, Southwark St., S.E.            |
| Blundell's London Copper & Brass Works (1910), Ltd. | West India Dock Road, Limehouse, B. |
| Green & Boulding, Ltd.                              | 28, New Bridge St., E.C.            |
| Hopkinson J., & Co., Ltd.                           | Huddersfield                        |
| Jenkins Bros., Ltd.                                 | 95, Queen Victoria St., E.C.        |
| Luke & Spencer, Ltd.                                | Canal Eng. Works, Altrincham        |
| Lunken Company, Ltd.                                | 35, Great Dover St., S.E.           |
| M'Neil C., Ltd.                                     | Kinning Park, Glasgow               |
| Morton & Weaver                                     | Cox St., Coventry                   |
| Piggott Thos., & Co., Ltd.                          | Springhill, Birmingham              |
| Power Gas Economy Co.                               | 50, Wellington St., Glasgow         |
| Royles Limited                                      | Irlam, nr. Manchester               |
| Steven & Struthers                                  | Kelvinnhaugh, Glasgow               |
| Tangyes Limited                                     | Birmingham                          |
| Turnbull Alex., & Co., Ltd.                         | Bishopbriggs, Glasgow               |
| Weir G. & J., Ltd.                                  | Cathcart, Glasgow                   |

**Engineers (Consulting and Inspecting).**

|                      |                               |
|----------------------|-------------------------------|
| Davis B. J.          | Gt. Eastern Rd., Stratford B. |
| Jennings, B. J.      | West Walls, Newcastle-on-Tyne |
| Maxted & Knott, Ltd. | Burnett Avenue, Hull          |
| Naish & Croft        | 150, Alma St., Birmingham     |

**Engines (Air).**

|                               |                     |
|-------------------------------|---------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester |
|-------------------------------|---------------------|

**Engines (Blowing).—(See also Fans and Blowers and Ventilators.)**

|                                                |                                          |
|------------------------------------------------|------------------------------------------|
| British Westinghouse Electric & Mfg. Co., Ltd. | Trafford Park, Manchester                |
| Davy Brothers, Ltd.                            | Sheffield                                |
| Drysdale & Co., Ltd.                           | Bon Accord Wks., Yoker, Glasgow, W.      |
| Fraser & Chalmers, Ltd.                        | Moorgate Hall, Finsbury Pavement, E.C.2. |
| Fullerton, Hodgart & Barclay, Ltd.             | Paisley, Scotland                        |
| Gwynnes Ltd.                                   | Hammersmith Ironwks., W.                 |
| Samuelson & Co., Ltd.                          | Banbury, Oxon                            |

**Engines (Gas).**

|                                                         |                          |
|---------------------------------------------------------|--------------------------|
| Allen, W. H. Son & Co., Ltd.                            | Bedford                  |
| Beardmore W., & Co., Ltd.                               | Glasgow                  |
| British Westinghouse Electric & Manufacturing Co., Ltd. | Trafford Pk., Manchester |
| Cameron John, Ltd.                                      | Salford, Manchester      |
| Campbell Gas Eng. Co., Ltd.                             | Hallifax, England        |
| Crossley Bros., Ltd.                                    | Manchester               |

**Engines (Gas).—Continued.**

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Davey, Paxman & Co., Ltd.              | Colchester                               |
| Dick, Kerr & Co., Ltd.                 | Abchurch Yard, Cannon St., E.C.          |
| Dudbridge Ironworks, Ltd.              | Dudbridge, near Stroud                   |
| Fielding & Platt, Ltd.                 | Atlas Works, Gloucester                  |
| Gardner L., & Sons, Ltd.               | Patricroft, Manchester                   |
| Haslam Foundry & Engineering Co., Ltd. | Derby                                    |
| Hindley E. S., & Sons                  | 11, Queen Victoria St., E.C.             |
| Hornsby Richard & Sons, Ltd.           | Grantham                                 |
| Lilleshall Co., Ltd.                   | Oakengates, Shropshire                   |
| Lister R. A., & Co., Ltd.              | Dursley, Glos.                           |
| Mather & Platt, Ltd.                   | Park Works, Manchester                   |
| National Gas Engine Co., Ltd.          | Ashton - under - Lyne, Manchester        |
| Premier Gas Engine Co., Ltd.           | Sandiacre, Nottingham                    |
| Robson John (Shipley), Ltd.            | Shipley, Yorks.                          |
| Ruston, Proctor & Co., Ltd.            | Lincoln                                  |
| Smulders A. F.                         | Schiedam, Holland                        |
| Stewart Duncan, & Co., Ltd.            | London Rd. Ironworks, Glasgow            |
| Sulzer Brothers                        | 30, Norfolk St., W.C.                    |
| Tangyes Limited                        | Birmingham                               |
| Thornycroft J. I., & Co., Ltd.         | Caxton H'se, West'nster, S.W.            |
| Wonham, Bates & Gooda (Inc.)           | 17, Battery Place, New York City, U.S.A. |

**Engines (Locomotive).**

|                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| Avonside Engine Co., Ltd.            | Bristol                                                         |
| Bagnall W. G., Ltd.                  | Stafford                                                        |
| Baldwin Locomotive Wks.              | 34, Victoria St., S.W.                                          |
| Barclay Andrew, Sons & Co., Ltd.     | Kilmarnock, N.B.                                                |
| Beyer, Peacock & Co., Ltd.           | Manchester                                                      |
| Dick, Kerr & Co., Ltd.               | Abchurch Yard, Cannon St., E.C.                                 |
| Fowler J., & Co. (Leeds), Ltd.       | Leeds                                                           |
| Hawthorn R. & W., Leslie & Co., Ltd. | Newcastle-on-Tyne                                               |
| Hudswell, Clarke & Co., Ltd.         | Leeds                                                           |
| Hunslet Engine Co., Ltd.             | Leeds                                                           |
| Kerr, Stuart & Co., Ltd.             | 5, Broad St. Place, E.C.                                        |
| Manning, Wardle & Co., Ltd.          | Boyne Engine Wks., Leeds                                        |
| Nasmith, Wilson & Co., Ltd.          | Bridgewater Foundry, Patricroft, nr. Manchester                 |
| North British Locomotive Co., Ltd.   | Administration Bldgs., 110, Flemington St., Springburn, Glasgow |
| Peckett & Sons, Ltd.                 | Atlas Locomotive Works, Bristol                                 |
| Ruston, Proctor & Co., Ltd.          | Sheaf Ironworks, Lincoln                                        |
| Stephenson Robert, & Co., Ltd.       | Darlington                                                      |
| Wonham, Bates & Goode (Inc.)         | 17, Battery Place, New York City, U.S.A.                        |
| Yorkshire Engine Co., Ltd.           | 16, Finsbury Circus, E.C.                                       |

**Engines (Marine).**

|                                   |                               |
|-----------------------------------|-------------------------------|
| Ailsa Shipbuilding Co., Ltd.      | Troon, N.B.                   |
| Bergius Launch & Engine Co., Ltd. | Dobbies Loan, Glasgow         |
| Campbell & Calderwood             | Soho Works, Paisley, Scotland |
| Chaplin Alex., & Co.              | Govan, Glasgow                |
| Cochran & Co. (Annan), Ltd.       | Annan, N.B.                   |

**Engines (Marine).—Continued.**

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Day, Summers & Co., Ltd.                   | Southampton                                  |
| Dodman Alfred, & Co., Ltd.                 | King's Lynn                                  |
| Fawcett, Preston & Co., Ltd.               | Liverpool                                    |
| Fleming & Ferguson, Ltd.                   | Paisley, N.B.                                |
| Hanna, Donald & Wilson.                    | Paisley, N.B.                                |
| Hawthorn R. & W., Leslie & Co., Ltd.       | Newcastle-on-Tyne                            |
| Hayes Edward                               | Stony Stratford, Wolver-                     |
| Lobnitz & Co., Ltd.                        | Renfrew, Scotland [ton                       |
| McKie & Baxter                             | Govan, Glasgow                               |
| Mumford A. G., Ltd.                        | Colchester                                   |
| North-Eastern Marine Engineering Co., Ltd. | Northumberland Works, Wallsend-on-Tyne       |
| Paul Matthew, & Co., Ltd.                  | Dumbarton                                    |
| Plenty & Son, Ltd.                         | Newbury, Berks                               |
| Richardsons, Westgarth & Co., Ltd.         | Hartlepool Engine Wks., Hartlepool [gow      |
| Ross & Duncan                              | Whitefield Works, Glasgow                    |
| Rowan David, & Co.                         | 231, Elliott St., Glasgow                    |
| Savery T. A., & Co., Ltd.                  | Birmingham                                   |
| Simons W., & Co., Ltd.                     | Renfrew, N.B.                                |
| Smit L., & Zoon                            | Kinderdijk, Holland                          |
| Stewart Duncan, & Co., Ltd.                | Glasgow                                      |
| Sulzer Brothers                            | 30, Norfolk St., W.C.                        |
| Sun Shipbuilding Co.                       | 1428 So. Penn Sq., Philadelphia, Pa., U.S.A. |
| Thornycroft J. I., & Co., Ltd.             | Southampton                                  |
| Vickers Limited                            | Barrow-in-Furness                            |
| Vosper & Co., Ltd.                         | Portsmouth                                   |
| Wallsend Slipway & Engineering Co., Ltd.   | Wallsend                                     |
| White J. Samuel, & Co., Ltd.               | East Cowes, Isle of Wight                    |
| Yarrow & Co., Ltd.                         | Glasgow                                      |

**Engines (Oil).**

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| A.B. Diesel Motorer              | Stockholm, Sweden                            |
| Allen W.H., Son & Co., Ltd.      | Bedford                                      |
| Beardmore W., & Co., Ltd.        | Glasgow                                      |
| Bergus Launch & Engine Co., Ltd. | Dobbies Loan, Glasgow                        |
| Blackstone & Co., Ltd.           | Rutland Wks., Stamford                       |
| Broom & Wade, Ltd.               | High Wycombe                                 |
| Campbell Gas Eng. Co., Ltd.      | Halifax, England                             |
| Cole, Marchant & Morley, Ltd.    | Bradford                                     |
| Crossley Bros., Ltd.             | Manchester                                   |
| Dorman W. H., & Co., Ltd.        | Stafford                                     |
| Dudbridge Ironworks, Ltd.        | Dudbridge, nr. Stroud                        |
| Fiddling & Platt, Ltd.           | Gloucester                                   |
| Gardner L., & Sons, Ltd.         | Patricroft, Manchester                       |
| Hornsbury R., & Sons, Ltd.       | Grantham                                     |
| Lister, R. A., & Co., Ltd.       | Dursley                                      |
| MacLaren Brothers, Ltd.          | 24, St. Vincent Place, Gainsborough [Glasgow |
| Marshall, Sons & Co., Ltd.       | Hazel Grove, near Stockport                  |
| Mirrlees, Bickerton & Day, Ltd.  | Scotland St., Glasgow                        |
| Mirrlees Watson Co., Ltd.        | Ashton-under-Lyne, Manchester                |
| National Gas Engine Co., Ltd.    | 67, Rue du Perrey, Le Havre, France          |
| Normand Augustin                 | Nautilus Works, Yeovil                       |
| Petters, Ltd.                    | Newbury, Berkshire                           |
| Plenty & Son, Ltd.               | Phoenix Wks., Cremonne St., Nottingham       |
| Reader E., & Sons                | Ipswich                                      |
| Reavell & Co., Ltd.              | Lincoln                                      |
| Robey & Co., Ltd.                | Shipley, Yorks.                              |
| Robson John (Shipley), Ltd.      | Sheaf Ironworks, Lincoln                     |
| Ruston, Proctor & Co., Ltd.      | Schiedam, Holland                            |
| Smulders A. F.                   |                                              |

**Engines (Oil).—Continued.**

|                               |                                |
|-------------------------------|--------------------------------|
| Sulzer Brothers               | 30, Norfolk Street, W.C.       |
| Tangyes Limited               | Birmingham                     |
| Thornycroft J.I., & Co., Ltd. | Caxton H'se, West'nster        |
| Vosper & Co., Ltd.            | Portsmouth [S.W.               |
| Westinghouse Brake Co., Ltd.  | 62, York Rd., King's Cross, N. |
| White J. Samuel, & Co., Ltd.  | East Cowes, Isle of Wight      |
| Willans & Robinson, Ltd.      | Rugby, Warwickshire            |
| Wolseley Motors, Ltd.         | York St., Westminster, S.W.    |

**Engines (Petrol).**

|                                  |                                   |
|----------------------------------|-----------------------------------|
| Bergus Launch & Engine Co., Ltd. | Dobbies Loan, Glasgow             |
| Blackstone & Co., Ltd.           | Rutland Wks., Stamford            |
| Lister R. A., & Co., Ltd.        | Dursley [Glasgow                  |
| MacLaren Brothers, Ltd.          | 24, St. Vincent Place, Portsmouth |
| Vosper & Co., Ltd.               |                                   |

**Engines (Portable).**

|                                  |                                 |
|----------------------------------|---------------------------------|
| Blackstone & Co., Ltd.           | Rutland Works, Stamford         |
| Davey, Paxman & Co., Ltd.        | Colchester                      |
| Garrett R., & Sons, Ltd.         | Leiston Works, Suffolk          |
| Hornsbury R., & Sons, Ltd.       | Grantham                        |
| Marshall, Sons & Co., Ltd.       | Gainsborough                    |
| Piggott Thos., & Co., Ltd.       | Springhill, Birmingham          |
| Ransomes, Sims & Jefferies, Ltd. | Ipswich                         |
| Robey & Co., Ltd.                | Lincoln                         |
| Ruston, Proctor & Co., Ltd.      | Sheaf Ironworks, Lincoln        |
| Smedley Bros., Ltd.              | Belper, Derbyshire              |
| Thornycroft J.I., & Co., Ltd.    | Caxton House, Westminster, S.W. |

**Engines (Pumping).**

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Bailey Sir W. H., & Co., Ltd.               | Salford, Manchester                      |
| Barclay, Andrew, Sons & Co., Ltd.           | Caledonia Wks., Kilmarnock, Scotland     |
| Berry Henry, & Co., Ltd.                    | Croydon Works, Leeds                     |
| Bever, Doring & Co., Ltd.                   | Bradford                                 |
| Caird & Rayner                              | 777, Commercial Rd., Limehouse, E. [gow  |
| Carruthers J. H., & Co., Ltd.               | Polmadie Ironwks., Glasgow               |
| Clarke, Chapman & Co., Ltd.                 | Gateshead-on-Tyne                        |
| Davey, Paxman & Co., Ltd.                   | Colchester                               |
| Drysdale & Co., Ltd.                        | Bon Accord Wks., Yoker, [Glasgow, W.     |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                             |
| Fleming & Ferguson, Ltd.                    | Paisley, N.B.                            |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley |
| Glenneld & Kennedy, Ltd.                    | Kilmarnock, N.B.                         |
| Gwynnes, Ltd.                               | Hammersmith Ironwks., Leeds [W.          |
| Hathorn, Davey & Co., Ltd.                  | Nottingham                               |
| Manlove, Alliott & Co., Ltd.                | Crown Point Fndry, Leeds                 |
| Musgrave Bros.                              | Denton Ironwks., Carlisle                |
| Pratchitt Bros.                             | Nine Elms Ironworks, Reading             |
| Pulsometer Engineering Co., Ltd.            | Elland Rd., Leeds                        |
| Rice & Co. (Leeds), Ltd.                    | 101, Grosvenor Rd., S.W.                 |
| Simpson James, & Co., Ltd.                  | Haslingden, nr. M'chester                |
| Stott S. S., & Co.                          | Birmingham                               |
| Tangyes Limited                             | Queen's House, Kingsway, W.C.            |
| Worthington Pump Co., Ltd.                  | Canal Works, Blackburn                   |
| Yates & Thom, Ltd.                          |                                          |

**Engines (Stationary).**

|                               |                         |
|-------------------------------|-------------------------|
| Allen W. H. Son & Co., Ltd.   | Bedford                 |
| Alley & Macellian, Ltd.       | Sentinel Works, Glasgow |
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester     |
| Belliss & Morcom, Ltd.        | Birmingham              |

**Engines (Stationary).—Continued.**

Bever, Dorling & Co., Ltd.  
 Brotherhood P., Ltd.  
 Brewett, Lindley & Co., Ltd.  
 Brown Bros. & Co., Ltd.  
 Chaplin Alex., & Co., Ltd.  
 Clarke, Chapman & Co., Ltd.  
 Cole, Marchant & Morley, Ltd.  
 Davey, Paxman & Co., Ltd.  
 Davy Bros., Ltd.  
 Donkin Co., Ltd. (The Bryan)  
 Douglas & Grant, Ltd.  
 Drysdale & Co., Ltd.  
 East Ferry Road Engineering Works Co., Ltd.  
 Fawcett, Preston & Co., Ltd.  
 Fowler J. & Co. (Leeds), Ltd.  
 Fullerton, Hodgart & Barclay, Ltd.  
 Galloways, Ltd.  
 Garrett R., & Sons, Ltd.  
 Grantham Boiler & Crank Co., Ltd.  
 Gwynnes, Ltd.  
 Harvey Engineering Co., Ltd.  
 Hathorn, Davey & Co., Ltd.  
 Heenan & Froude, Ltd.  
 Hindley B. S., & Sons  
 Hornsby R., & Sons, Ltd.  
 Howden James, & Co., Ltd.  
 Lillishall Co., Ltd.  
 Manlove, Alliott & Co., Ltd.  
 Marshall, Sons & Co., Ltd.  
 Mirrieles Watson Co., Ltd.  
 Musgrave & Co., Ltd.  
 Parsons C. A., & Co., Ltd.  
 Paul Matthew & Co., Ltd.  
 Peckett & Sons, Ltd.  
 Ransome A., & Co., Ltd.  
 Ransomes, Sims & Jefferies, Ltd.  
 Reader B., & Sons  
 Reavell & Co., Ltd.  
 Robey & Co., Ltd.  
 Russell Geo., & Co., Ltd.  
 Ruston, Proctor & Co., Ltd.  
 Sandycroft, Ltd.  
 Shanks Thomas, & Co.  
 Sisson W., & Co., Ltd.  
 Smedley Bros., Ltd.  
 Stewart Duncan, & Co., Ltd.  
 Stott S. S., & Co.  
 Sulzer Bros.  
 Sun Shipbuilding Co.  
 Sunderland Forge & Engineering Co., Ltd.  
 Tangyes Limited  
 Taylor & Challen, Ltd.  
 Thornycroft J. I. & Co., Ltd.  
 Tullis D. & J., Ltd.  
 Walker Bros. (Wigan), Ltd.  
 Willans & Robinson, Ltd.  
 Yates & Thom, Ltd.  
 Bowling Ironworks, Bradford  
 53, Parliament St., S.W.  
 Patricroft, Manchester  
 Edinburgh, N.B.  
 Govan, Glasgow  
 Gateshead-on-Tyne  
 Bradford  
 Colchester  
 Sheffield  
 Chesterfield  
 Kirkcaldy, N.B.  
 Bon Accord Wks., Yoker, Glasgow, W.  
 Millwall, B.  
 Liverpool  
 Leeds  
 Vulcan Foundry and Engine Works, Paisley  
 Manchester  
 Leiston Works, Suffolk  
 Grantham (W.)  
 Hammersmith Ironworks,  
 Sootland St. Engine Wks., Glasgow  
 Leeds  
 Worcester  
 11, Queen Victoria St., E.C.  
 Grantham  
 Scotland St., Glasgow  
 Oakengates, Shropshire  
 Nottingham  
 Gainsborough  
 Scotland St., Glasgow  
 St. Ann's Ironworks, Belfast  
 Newcastle-on-Tyne  
 Dumbarton  
 Atlas Eng. Works, Bristol  
 Newark-on-Trent  
 Ipswich  
 Phoenix Wks., Cremorne St., Nottingham  
 Ipswich  
 Lincoln  
 Motherwell, nr. Glasgow  
 Sheaf Ironworks, Lincoln  
 Chester  
 Johnstone, N.B.  
 Gloucester  
 Belper, Derbyshire  
 Glasgow  
 Haslingden, nr. Manchester  
 30, Norfolk St., S.W.  
 1428 So., Penn Sq., Philadelphia, Pa., U.S.A.  
 Pallion, Sunderland  
 Birmingham  
 Birmingham  
 Caxton House, Westminster, S.W.  
 Glasgow  
 Pagefield Iron Works, Wigan  
 Rugby, Warwickshire  
 Canal Works, Blackburn

**Engines (Traction).**

Aveling & Porter, Ltd.  
 Avonside Engine Co., Ltd.  
 Burrell C., & Sons, Ltd.  
 Davey, Paxman & Co., Ltd.  
 Fowler J., & Co. (Leeds), Ltd.  
 Garrett R., & Sons, Ltd.  
 Hornsby R., & Sons, Ltd.  
 Marshall, Sons & Co., Ltd.  
 Pratchitt Bros.  
 Ransomes, Sims & Jefferies, Ltd.  
 Robey & Co., Ltd.  
 Ruston, Proctor & Co., Ltd.  
 Thornycroft J. I. & Co., Ltd.  
 Wolseley Motors, Ltd.  
 Rochester  
 Bristol  
 Theford  
 Colchester  
 Leeds  
 Leiston Works, Suffolk  
 Grantham  
 Gainsborough  
 Denton Ironworks, Carlisle  
 Ipswich  
 Lincoln  
 Sheaf Ironworks, Lincoln  
 Basingstoke  
 York St., Westminster, S.W.

**Engines (Winding).—(See also Haulage Plants.)**

Barclay Andrew, Sons & Co., Ltd.  
 Bever, Dorling & Co., Ltd.  
 Chaplin Alex., & Co., Ltd.  
 Clarke, Chapman & Co., Ltd.  
 Davey, Paxman & Co., Ltd.  
 East Ferry Road Engineering Works Co., Ltd.  
 Fawcett, Preston & Co., Ltd.  
 Galloways, Ltd.  
 Heenan & Froude, Ltd.  
 Lidgerwood Mfg. Co.  
 Marshall, Sons & Co., Ltd.  
 Pratchitt Bros.  
 Ransomes, Sims & Jefferies, Ltd.  
 Robey & Co., Ltd.  
 Ruston, Proctor & Co., Ltd.  
 Sandycroft, Ltd.  
 Siemens Bros. Dynamo Works, Ltd.  
 Tangyes Limited  
 Walker Bros. (Wigan), Ltd.  
 Yates & Thom, Ltd.  
 Blair, Campbell, & McLean, Ltd.  
 Burnet L., & Co.  
 Caird & Rayner  
 Fullerton, Hodgart and Barclay, Ltd.  
 Harvey Engineering Co., Ltd.  
 Kirkcaldy John, Ltd.  
 Mirrieles Watson Co., Ltd.  
 Richardson, Westgarth & Co., Ltd.  
 Royles, Ltd.  
 Weir, G. & J., Ltd.  
 Bucyrus Co.  
 Chaplin Alex., & Co., Ltd.  
 Coles H. J., Ltd.  
 Cornforth Ernest E.  
 Figue Ltd.  
 Fleming & Ferguson, Ltd.  
 Caledonia Wks., Kilmarnock, Scotland  
 Bowling Ironworks, Bradford  
 Govan, Glasgow  
 Gateshead-on-Tyne  
 Colchester  
 Millwall, B.  
 Liverpool  
 Manchester  
 Worcester  
 Friars House, New Broad St., E.C.  
 Gainsborough  
 Denton Ironworks, Carlisle  
 Ipswich  
 Lincoln  
 Sheaf Ironworks, Lincoln  
 Chester  
 Caxton House, Westminster, S.W.  
 Birmingham  
 Pagefield Iron Works, Wigan  
 Canal Works, Blackburn  
 (See also Distilling (Water) Apparatus.)  
 Woodville St., Govan, Glasgow  
 Govan, Glasgow  
 777, Commercial Rd., B.  
 Vulcan Foundry and Engine Works, Paisley  
 Scotland St. Engine Works, Glasgow  
 101, Leadenhall St., E.C. 3  
 Scotland St., Glasgow  
 Hartlepool  
 Irlam, nr. Manchester  
 Cathcart, Glasgow  
 13, Victoria St., Westminster, S.W.  
 Govan, Glasgow  
 London Crane Wks., Derby  
 Stoke-on-Trent  
 Haarlem, Holland  
 Paisley, N.B.



**Excavators.—Continued.**

|                                 |    |                                            |
|---------------------------------|----|--------------------------------------------|
| Hayward Co., The                | .. | Hudson Terminal Bldg.,<br>New York, U.S.A. |
| Lobnitz & Co., Ltd.             | .. | Renfrew, Scotland                          |
| Priestman Bros., Ltd.           | .. | 3, Laurence Pountney<br>Hill, E.C.         |
| Rose, Downs & Thompson,<br>Ltd. | .. | Old Foundry, Hull                          |
| Rubery, Owen, & Co.             | .. | Darlaston, South Staffs.                   |
| Ruston, Proctor & Co.,<br>Ltd.  | .. | Sheaf Ironworks, Lincoln                   |
| Smulders A. F.                  | .. | Schiedam, Rotterdam,<br>Holland            |
| Strachan & Henshaw, Ltd.        | .. | Bristol                                    |
| Western Wheeled Scraper<br>Co.  | .. | Aurora, Illinois, U.S.A.                   |
| Westwood, Joseph & Co.,<br>Ltd. | .. | Napier Yard, Millwall, E.                  |
| Whitaker D.                     | .. | 1, Union St., Leicester                    |
| Whitakers (Engineers), Ltd.     | .. | Horsforth, Leeds                           |

**Exhausters.—(See also Gas Exhausters.)**

|                                                    |                                          |
|----------------------------------------------------|------------------------------------------|
| Alldays & Onions (Pneumatic Engineering) Co., Ltd. | Birmingham                               |
| British Vacuum Cleaner Co., Ltd.                   | Dept. 5/20, Parson's<br>Green Lane, S.W. |
| Donkin Co., Ltd. (The Bryan)                       | Chesterfield                             |
| Gwynnes, Ltd.                                      | 81, Cannon Street, E.C.                  |
| Standard Engineering Co.,<br>Ltd.                  | Leicester                                |

**Expanded Metal.**

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| Expanded Metal Co., Ltd.        | York Mansion, York St.,<br>Westminster, S.W. |
| Wonham, Bates & Goode<br>(Inc.) | 17, Battery Place, New<br>York City, U.S.A.  |

**Fans and Blowers.—(See also Engines—Blowing, and Ventilators.)**

|                                                    |                                                |
|----------------------------------------------------|------------------------------------------------|
| Alldays & Onions (Pneumatic Engineering) Co., Ltd. | Birmingham                                     |
| Allen W. H., Son, & Co., Ltd.                      | Bedford                                        |
| Barclay Andrew, Sons &<br>Co., Ltd.                | Caledonia Wks., Kilmar-<br>nock, Scotland      |
| Brotherhood P., Ltd.                               | 53, Parliament St., S.W.                       |
| Churchill Chas. & Co., Ltd.                        | 9 to 15, Leonard St., E.C.                     |
| Davidson & Co., Ltd.                               | Sirocco Engineering Wks.,<br>Belfast           |
| Donkin Co., Ltd. (The Bryan)                       | Chesterfield                                   |
| Electric & Ordnance Acces-<br>sories Co., Ltd.     | Aston, Birmingham                              |
| Electromotors, Ltd.                                | Openshaw, Manchester                           |
| Fraser & Chalmers, Ltd.                            | Moorgate Hall, Finsbury<br>Pavement, E.C.2.    |
| Gunther W., & Sons                                 | Central Works, Oldham                          |
| Gwynnes, Ltd.                                      | Hammersmith Ironwks.,<br>W.                    |
| Heenan & Froude, Ltd.                              | Worcester                                      |
| Howden James, & Co.                                | Scotland St., Glasgow                          |
| Keith James, & Blackman<br>Co., Ltd.               | 27, Farringdon Avenue,<br>E.C.                 |
| Murray, McVinnie & Co.,<br>Ltd.                    | Mavisbank Quay, Glas-<br>gow                   |
| Musgrave & Co., Ltd.                               | Belfast                                        |
| Parsons C. A., & Co., Ltd.                         | Newcastle-on-Tyne                              |
| Paul Matthew, & Co., Ltd.                          | Dumbarton                                      |
| Pitman Percy                                       | 25, Victoria St., S.W.                         |
| Standard Engineering Co.,<br>Ltd.                  | Leicester                                      |
| Sturtevant Engineering<br>Co., Ltd.                | 147, Queen Victoria St.,<br>E.C.               |
| Westminster Tool & Electric<br>Co.                 | Suffolk House, Laurence<br>Pountney Hill, E.C. |

**Feed Check Valves (Combination).**

|                           |    |                          |
|---------------------------|----|--------------------------|
| Green & Boulding, Ltd.    | .. | 28, New Bridge St., E.C. |
| Hopkinson J., & Co., Ltd. | .. | Huddersfield             |
| Weir G. & J., Ltd.        | .. | Cathcart, Glasgow        |

**Feed Water Filters.—(See also Filtering Apparatus.)**

|                                                 |                                             |
|-------------------------------------------------|---------------------------------------------|
| Carruthers J. H. & Co., Ltd.                    | Glasgow                                     |
| Harris Patent Feed-Water<br>Filter (1910), Ltd. | 24, Grainger St. West,<br>Newcastle-on-Tyne |
| Mather & Platt, Ltd.                            | Park Works, Manchester                      |

**Feed Water Heaters.**

|                                                 |                                           |
|-------------------------------------------------|-------------------------------------------|
| Bailey Sir W. H. & Co., Ltd.                    | Salford, Manchester                       |
| Burnet L. & Co.                                 | Govan, Glasgow                            |
| Caird & Rayner                                  | 777, Commercial Rd., E.                   |
| Clarke, Chapman & Co., Ltd.                     | Gateshead-on-Tyne                         |
| Hall J. P., & Sons                              | Peterborough                              |
| North-Eastern Marine En-<br>gineering Co., Ltd. | Northumberland Works,<br>Wallsend-on-Tyne |
| Paterson Engineering Co.,<br>Ltd.               | 21, India House, Kings-<br>way, W.C.      |
| Royles, Ltd.                                    | Irlam, nr. Manchester                     |
| Tangyes, Ltd.                                   | Birmingham                                |
| Weir G. & J., Ltd.                              | Cathcart, Glasgow                         |
| Worthington Pump Co., Ltd.                      | Queen's House, Kings-<br>way, W.C.        |
| Wright's Forge & Engineer-<br>ing Co., Ltd.     | Tipton, Staffs.                           |

**Feed Water Regulators.**

|                               |                           |
|-------------------------------|---------------------------|
| Thornycroft J. I. & Co., Ltd. | Southampton               |
| White J. Samuel, & Co., Ltd.  | East Cowes, Isle of Wight |
| Yarrow & Co., Ltd.            | Glasgow                   |

**Fencing.**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Bayliss, Jones & Bayliss, Ltd. | Wolverhampton                       |
| Rubery, Owen, & Co.            | Darlaston, South Staf-<br>fordshire |
| Vulcan Steel Products Co.      | 120, Broadway, New<br>York, U.S.A.  |

**Ferro Concrete.—(See Concrete—Reinforced.)****Fires.**

|                           |    |                          |
|---------------------------|----|--------------------------|
| Allen Edgar, & Co., Ltd.  | .. | Sheffield                |
| Burys & Co., Ltd.         | .. | Sheffield                |
| Cammell Laird & Co., Ltd. | .. | Sheffield                |
| Firth Thos., & Sons, Ltd. | .. | Norfolk Works, Sheffield |
| Hadfields Limited         | .. | Hecia Works, Sheffield   |
| Turton T., & Sons, Ltd.   | .. | Sheaf Works, Sheffield   |

**Filtering Apparatus.—(See also Feed-water Filters.)**

|                                                 |    |                                      |
|-------------------------------------------------|----|--------------------------------------|
| Buhring's Patent Water<br>Purifying Co.         | .. | 60, Wilson St., E.C.                 |
| Caird & Rayner                                  | .. | 777, Commercial Rd., E.              |
| Carruthers J. H. & Co., Ltd.                    | .. | Glasgow                              |
| Cockburns, Ltd.                                 | .. | Cardonald, Glasgow                   |
| Harris Patent Feed Water<br>Filter (1910), Ltd. | .. | 82, Victoria St., S.W.               |
| Manlove, Elliott & Co., Ltd.                    | .. | Nottingham                           |
| Mather & Platt, Ltd.                            | .. | Park Works, Manchester               |
| Paterson Engineering Co.,<br>Ltd.               | .. | 21, India House, Kings-<br>way, W.C. |
| Pulsometer Engineering<br>Co., Ltd.             | .. | Nine Elms Ironworks,<br>Reading      |
| Royles, Ltd.                                    | .. | Irlam, nr. Manchester                |
| Rubery, Owen, & Co.                             | .. | Darlaston, South Staffs              |
| United Water Softeners, Ltd.                    | .. | Imperial Hse., Kingsway,<br>W.C.     |
| Wells A. C., & Co.                              | .. | 102, Midland Rd., N.W.               |
| Wright's Forge & Engineer-<br>ing Co., Ltd.     | .. | Tipton, Staffs.                      |

**Filters (Air).**

Davidson & Co., Ltd. .. Belfast  
 Heenan & Froude, Ltd. .. Worcester  
 Premier Cooler & Engineer- } Broadway Court, Broad-  
 ing Co., Ltd. .. } way, Westminster, S.W.

**Fire Bars.**

Barclay Andrew, Sons & } Caledonia Works, Kil-  
 Co., Ltd. .. } marnock  
 Rose, Downs & Thompson, }  
 Ltd. .. } Old Foundry, Hull

**Fire Bricks.—(See Refractory Materials).****Fire-Extinguishing Apparatus.**

American Steel Export Co. Woolworth Bldg., New  
 York, U.S.A.

Guest & Chrimes .. Rotherham  
 Ham, Baker & Co., Ltd. .. Langley Green, Birming-  
 ham

Merryweather & Sons, Ltd. 63, Long Accr, W.C.  
 Reddaway F. & Co., Ltd. Pendleton, Manchester  
 Worthington Pump Co. } Queen's House, Kings-  
 Ltd. .. } way, W.C.

**Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)****Forced and Induced Draught Apparatus.**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. Birmingham  
 Bennis Ed., & Co., Ltd. Bolton  
 Davidson & Co., Ltd. Belfast  
 Davy Bros., Ltd. Sheffield  
 Electric & Ordnance Accessories Co., Ltd. Aston, Birmingham  
 Heenan & Froude, Ltd. Worcester  
 Howden James, & Co., Ltd. Scotland St., Glasgow  
 Keith James, & Blackman Co., Ltd. 27, Farringdon Av., E.C.  
 Mechans Limited .. Glasgow  
 Meldrums, Ltd. Timperley, nr. Manchester  
 Musgrave & Co., Ltd. Belfast  
 Standard Engineering Co., Ltd. Leicester  
 Sturtevant Engineering } 147, Queen Victoria St.,  
 Co., Ltd. .. } E.C.

**Forges (Portable).**

Standard Engineering Co., Ltd. Leicester  
 Sturtevant Engineering } 147, Queen Victoria St.,  
 Co., Ltd. .. } E.C.

**Forging Machines and Plant.**

Berry Henry, & Co., Ltd. Croydon Works, Hunslet,  
 Brett's Patent Lifter Co., Ltd. Coventry (Leeds)  
 Davis & Primrose, Ltd. Bangor Rd., Leith  
 Davy Bros., Ltd. Sheffield  
 Player W. & J. Birmingham  
 Rice & Co. (Leeds), Ltd. Elland Rd., Leeds  
 Taylor & Challen, Ltd. Birmingham

**Forging Presses.—(See also Hydraulic Presses.)**

Berry Henry, & Co., Ltd. Croydon Works, Hunslet,  
 Davy Bros., Ltd. Sheffield (Leeds)  
 Fielding & Platt, Ltd. Gloucester  
 Rice & Co. (Leeds), Ltd. Elland Rd., Leeds  
 Southwark Foundry & Machine Co. Philadelphia, U.S.A.  
 Stewart Duncan, & Co., Ltd. London Rd. Ironworks,  
 Glasgow

**Forgings (Brass, Bronze, Copper, &c.).**

Delta Metal Co., Ltd. East Greenwich, S.B.

**Forgings (Drop).**

Armstrong, Stevens & Son, Ltd. Whittall St., Birmingham  
 Electro-Mechanical Brake Co., Ltd. Eagle Wks., West Brom-  
 Gartscherrie Engineering & Forge Co. 50, Wellington St., Glas-  
 Head, Wrightson & Co., Ltd. go  
 Hurst, Nelson & Co., Ltd. Thornaby-on-Tees  
 Smethwick Stamping Co. Motherwell, N.B.  
 Bridge St., Smethwick,  
 Staffs  
 Vickers Limited Sheffield  
 Wiley James, & Sons, Ltd. Darlaston  
 Williams J. H., & Co. 91, Richard St., Brooklyn,  
 N.Y., U.S.A.

**Forgings (Iron and Steel).**

American Steel Export Co. Woolworth Bldg., New  
 York, U.S.A.  
 Beardmore Wm., & Co., Ltd. Parkhead Ironworks,  
 Bessemer Hy., & Co., Ltd. Sheffield [Glasgow  
 Brown John, & Co., Ltd. Sheffield  
 Cammell Laird & Co., Ltd. Sheffield  
 Colville David, & Sons, Ltd. Motherwell, nr. Glasgow  
 Dennystown Forge Co. Dumbarton  
 Electro Mechanical Brake Co., Ltd. Eagle Wks., West Brom-  
 Fairley James, & Sons .. wich  
 Fife Forge Co., Ltd. Shadwell St., Birmingham  
 Firth Thos., & Sons, Ltd. Kirkcaldy, Scotland  
 Hadfields Limited .. Norfolk Works, Sheffield  
 Hawthorn R. & W., Leslie & Co., Ltd. Hecla Works, Sheffield  
 Hurst, Nelson & Co., Ltd. Newcastle-on-Tyne  
 Kirkstall Forge Co., Ltd. Motherwell, N.B.  
 Leeds Forge Co., Ltd. Leeds  
 Midland Railway Carriage & Wagon Co., Ltd. Midland Works, Birming-  
 North-Eastern Marine En- } ham  
 gineering Co., Ltd. } Northumberland Works,  
 Richards Edwin, & Sons .. Wallsend-on-Tyne  
 Somers, Walter & Co., Ltd. Portway Wks., Wednes-  
 Steel Co. of Scotland, Ltd. bury  
 Thornycroft J.I., & Co., Ltd. Halesowen [Glasgow  
 Vickers Limited .. 23, Royal Exchange Sq.,  
 Southampton  
 Sheffield

**Foundry Plant.—(See also Crucibles, Cupolas, Ladles, Moulding Machines, and Sand Blast Machines.)**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. Birmingham  
 Hingley & Lamb, Ltd. Stour Works, Lye  
 Robson E. Capper & Co., Ltd. 1, North Rd., Darlington  
 Wonham, Bates & Goode } 17, Battery Place, New  
 (Inc.) .. } York City, U.S.A.

**Furnaces for Destroying Refuse.—(See Disinfectors and Destructors.)****Furnaces and Furnace Fittings.**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. Birmingham  
 Beardmore W. & Co., Ltd. Glasgow  
 Bennis Ed., & Co., Ltd. Bolton

**Furnaces and Furnace Fittings.—Continued.**

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Brayshaw Furnaces & Tools, Ltd.          | Mulberry St., Hulme, Manchester        |
| Brett's Patent Lifter Co., Ltd.          | Coventry                               |
| Brown John, & Co., Ltd.                  | Sheffield                              |
| Churchill Chas., & Co., Ltd.             | 9 to 15, Leonard St., E.C.             |
| Dowson & Mason Gas Plant Co., Ltd.       | Levenshulme, Manchester                |
| Electro-Metals, Ltd.                     | Imperial Buildings, 56, Kingsway, W.C. |
| Fletcher, Russell & Co., Ltd.            | 15, Fisher St., Southampton Row, W.C.  |
| Gibbons Bros., Ltd.                      | Dudley, Worc.                          |
| Howden James, & Co., Ltd.                | Scotland St., Glasgow                  |
| Leeds Forge Co., Ltd.                    | Leeds                                  |
| Lynn Chemical Eng. Co., Ltd.             | 40, Westminster Palace Gardens, S.W.   |
| Meldrums, Ltd.                           | Timperley, nr. M'chester               |
| Monometer Mfg. Co., Ltd.                 | Aston, Birmingham                      |
| Piggott Thos., & Co., Ltd.               | Birmingham                             |
| Richmond Gas Stove & Meter Co., Ltd.     | Academy St., Birmingham                |
| Wallsend Slipway & Engineering Co., Ltd. | Wallsend                               |

**Furnaces (Gas and Oil Heated).**

|                                                   |                                       |
|---------------------------------------------------|---------------------------------------|
| Aldays & Onions (Pneumatic Engineering) Co., Ltd. | Birmingham                            |
| Brayshaw Furnaces & Tools, Ltd.                   | Mulberry St., Hulme, Manchester       |
| Davis Furnace Co.                                 | 54, Rathbone Place, W.I.              |
| Fletcher, Russell, & Co., Ltd.                    | 15, Fisher St., Southampton Row, W.C. |
| Incandescent Heat Co., Ltd.                       | Smethwick, Birmingham                 |
| Monometer Mfg. Co., Ltd.                          | Aston, Birmingham                     |

**Furnaces (Hardening).**

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Brayshaw Furnaces & Tools, Ltd. | Mulberry St., Hulme, Manchester       |
| British Carbonizing Co., Ltd.   | Vulcan Wks., Gloucester               |
| Churchill C., & Co., Ltd.       | 9-15, Leonard St., E.C.               |
| Davis Furnace Co.               | 54, Rathbone Pl., W.I.                |
| Fletcher, Russell, & Co., Ltd.  | 15, Fisher St., Southampton Row, W.C. |
| Gibbons Bros., Ltd.             | Dudley, Worc.                         |
| Incandescent Heat Co., Ltd.     | Smethwick, Birmingham                 |
| Monometer Mfg. Co., Ltd.        | Aston, Birmingham                     |
| Wright John, & Co.              | Essex Wks., Birmingham                |

**Furniture and Fittings (Metal, &c.).**

|                                    |                                      |
|------------------------------------|--------------------------------------|
| Crittall Steel Furniture Co., Ltd. | 11 & 12, Finsbury Sq., E.C.2.        |
| Walls, Ltd.                        | Crown Works, Fazeley St., Birmingham |
| Wincott G. P., Ltd.                | 180, Attercliffe Rd., Sheffield      |

**Fusible Plugs.**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Lunken Co., Ltd.                                | 35, Great Dover St., S.E.        |
| National Boiler and General Insurance Co., Ltd. | St. Mary's Parsonage, Manchester |

**Galvanized Ironwork.**

|                          |                                       |
|--------------------------|---------------------------------------|
| Ash Joseph, & Son        | Rea St. South, Birm'gh'm              |
| Baldwins, Ltd.           | 3, St. Helen's Pl., E.C.              |
| Braby Fred., & Co., Ltd. | Euston Rd., N.W.                      |
| Harvey G. A., & Co.      | Greenwich Metal Works, (London), Ltd. |
| Hingley & Lamb, Ltd.     | Woolwich Rd., S.B.                    |
| Ramsday & Marshall, Ltd. | Stour Works, Lye Birmingham           |

**Galvanizers.**

|                          |                                       |
|--------------------------|---------------------------------------|
| Ash Joseph, & Son        | Rea St. South, Birm'gh'm              |
| Baldwins, Ltd.           | 3, St. Helen's Pl., E.C.              |
| Braby Fred., & Co., Ltd. | Euston Rd., N.W.                      |
| Canning W., & Co.        | Lustre Wks., Birmingham               |
| Harvey G. A., & Co.      | Greenwich Metal Works, (London), Ltd. |
|                          | Woolwich Rd., S.B.                    |

**Galvanizing.—(Plant for).**

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Cowper-Coles Mfg. Co.          | Sunbury-on-Thames                             |
| Thompson Bros. (Bilston), Ltd. | Bradley Engineering and Boiler Works, Bilston |

**Gas Compressors (High Pressure).**

|                    |                               |
|--------------------|-------------------------------|
| Baxter, Fell & Co. | 22-23, Great Tower St., E.C.3 |
| Seagers Limited    | Dartford, Kent                |

**Gas Engines.—(See Engines, Gas.)****Gas Exhausters.—(See also Exhausters.)**

|                              |                                      |
|------------------------------|--------------------------------------|
| Allen W. H. Son & Co., Ltd.  | Bedford                              |
| Donkin Co., Ltd. (The Bryan) | Chesterfield                         |
| Gwynnes, Ltd.                | 81, Cannon St., E.C.                 |
| Samuelson & Co., Ltd.        | Britannia Wks., Banbury, Oxon [E.C.] |
| Sturtevant Eng. Co., Ltd.    | 147, Queen Victoria St.,             |

**Gas Producers.**

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Bellamy John, Ltd.                 | Millwall, E.                               |
| Cameron John, Ltd.                 | Salford, Manchester                        |
| Campbell Gas Engine Co., Ltd.      | Halifax, England                           |
| Clayton Son, & Co., Ltd.           | Hunslet, Leeds                             |
| Crossley Bros., Ltd.               | Openshaw, Manchester                       |
| Daniels T. H. & J., Ltd.           | Stroud, Glos.                              |
| Davey, Paxman & Co., Ltd.          | Colchester                                 |
| Dowson & Mason Gas Plant Co., Ltd. | Levenshulme, Manchester                    |
| Fielding & Platt, Ltd.             | Gloucester                                 |
| Hornsby Richard, & Sons, Ltd.      | Grantham                                   |
| Humphreys & Glasgow, Ltd.          | 38, Victoria St., S.W.                     |
| Lynn Chemical Eng. Co., Ltd.       | 40, Westminster Palace Gardens, S.W.       |
| Power Gas Corporation, Ltd.        | Stockton-on-Tees                           |
| Robson John (Shipley), Ltd.        | Shipley, Yorks.                            |
| Ruston, Proctor & Co., Ltd.        | Lincoln                                    |
| Stewart Duncan, & Co., Ltd.        | London Rd. Ironworks, Birmingham [Glasgow] |
| Tangyes Limited                    | 180, Attercliffe Rd., Sheffield            |
| Wincott G. P., Ltd.                |                                            |

**Gas Works (Plant for).—(See also Coke Rams, and Exhausters.)**

|                                    |                        |
|------------------------------------|------------------------|
| Ashmore, Benson, Pease & Co., Ltd. | Stockton-on-Tees       |
| Clarke, Chapman & Co., Ltd.        | Gateshead-on-Tyne      |
| Clayton Son, & Co., Ltd.           | Hunslet, Leeds         |
| Donkin Co., Ltd. (The Bryan)       | Chesterfield           |
| Goodall, Clayton & Co., Ltd.       | Hunslet, Leeds         |
| Head, Wrightson & Co., Ltd.        | Thornaby-on-Tees       |
| Jenkins W. J., & Co., Ltd.         | Beehive Works, Retford |
| Piggott Thos., & Co., Ltd.         | Springhill, Birmingham |

**Gases (Oxygen, &c.).**

|                          |                         |
|--------------------------|-------------------------|
| Allen-Liversidge, Ltd.   | 106, Victoria St., S.W. |
| British Oxygen Co., Ltd. | Elverton St., S.W.      |
| Imperial Light, Limited  | 123, Victoria St., S.W. |

**Gases (Plant for Producing).**

Baxter, Fell & Co. .. 22-23, Great Tower St.  
E.C.3

**Gauge Glasses.**

Butterworth Bros., Ltd. .. Manchester  
Guilbert-Martin .. 9, Edmund Place, E.C.  
Lunken Co., Ltd. .. 35, Great Dover St., S.E.  
Tomey Joseph, & Sons, Ltd. .. Aston, Birmingham

**Gauges (Pressure, Vacuum and Hydraulic).**

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester  
Dobbie, McInnes, Ltd. .. 57, Bothwell St., Glasgow  
Hannan & Buchanan .. 75, Robertson St., Glas-  
Hopkinson J., & Co., Ltd. .. Huddersfield (gow  
Hulburd Eng. Co., Ltd. .... St. Benet Chambers,  
Fenchurch St., E.C.  
Lunken Co., Ltd. .. 35, Great Dover St., S.E.  
Negretti & Zambra .. 38, Holborn Viaduct, E.C.

**Gear Cutters.**

British Insulated & Helsby  
Cables, Ltd. .... Prescott, Lancashire  
Campbells & Hunter, Ltd. .. Dolphin Foundry, Leeds  
Lang John, & Sons .. Johnstone, nr. Glasgow  
Mikron, Ltd. .... Madretsch, Bienne, Swit-  
zerland  
Reay Gearworks, Ltd. .. Gateshead-on-Tyne  
Reid Gear Co. .... Linwood, nr. Paisley  
Wallwork Henry, & Co.,  
Ltd. .... Manchester  
Wrigley E. G., & Co., Ltd. .. Foundry Lane Works,  
Soho, Birmingham

**Gearing.—(See Wheels—Geared.)****Gearing (Speed Reducing).**

Brown David, & Sons } Park Works, Hudders-  
(Huddersfield), Ltd. .. } field  
Reid Gear Co. .... Linwood, nr. Paisley  
Turbine Gears, Ltd. .... Hyde

**Gears (Rawhide, &c.).**

Angus George, & Co., Ltd. .. Newcastle-on-Tyne  
Reay Gearworks, Ltd. .... Gateshead-on-Tyne

**Girders.**

Arrol Sir William, & Co., } Dalmarnock Ironworks,  
Ltd. .... } Bridgeton, Glasgow  
Clyde Structural Iron Co., } Clydeside Ironworks,  
Ltd. .... } Scotstoun, Glasgow  
Heenan & Froude, Ltd. .... Newton Heath Ironw'ks.  
nr. Manchester

Mechans Limited .. Glasgow  
Piggott Thos., & Co., Ltd. .. Springhill, Birmingham  
Scott Walter, Ltd. .... Leeds Steel Works,  
Leeds

Smith & Pearson, Ltd. .. Newcomen Ironworks,  
Dublin

**Glazing.**

Grover & Co., Ltd. .... Carpenter's Rd., Strat-  
ford, E.  
Triplex Safety Glass Co.,  
Ltd. .... 1, Albemarle St., W.

**Gold Crushing and Amalgamating Machinery.**

Davey, Paxman & Co.,  
Ltd. .... Colchester  
Hadfields Limited .. Hecla Works, Sheffield  
Marsden H. R., Ltd. .... Soho Foundry, Leeds  
Sandycroft, Ltd. .... Chester

**Gold Dredgers.**

Bucyrus Co. .... 13, Victoria St., S.W. 1  
Lobnitz & Co., Ltd. .... Renfrew, Scotland  
Simons W., & Co., Ltd. .... Renfrew, Scotland

**Governors (Engine).**

Escher, Wyss & Co. .... 109, Victoria St., S.W.  
Hartnell Wilson, & Co., Ltd. .. Volt Works, Kirkstall  
Rd., Leeds  
Mason Regulator Co. .... Boston, Mass. U.S.A.  
Newton, Bean & Mitchell .. Dudley Hill, Bradford  
Pollock, Macnab & Highgate .. Shettleston, Glasgow  
Pitman Percy .. 25, Victoria St., S.W.  
Tangyres Limited .. Birmingham

**Grabs.**

Hayward Co., The .. Hudson Terminal Bldg.,  
New York, U.S.A.  
Priestman Bros., Ltd. .... Holderness Foundry, Hull  
Westwood, Joseph, & Co.,  
Ltd. .... Napier Yard, Millwall, E.  
Wilson John H. & Co. .... Dock Rd., Birkenhead  
Wonham, Bates & Goode } 17, Battery Place, New  
(Inc.) .. } York City, U.S.A.

**Graphite (Lubricating, &c.).**

Graphite Products, Ltd. .... 218-220, Queen's Rd., Bat-  
tersea, S.W.

**Grinding Mills.—(See also Disintegrators.)**

Allen Edgar, & Co., Ltd. .... Sheffield  
Fletcher George, & Co., Ltd. .. Litchurch, Derby  
Hadfields Limited .. Hecla Works, Sheffield  
Hardy & Padmore, Ltd. .... Worcester  
Johnson Wm., & Sons } Castleton Foundry,  
(Leeds), Ltd. .... } Armley, Leeds  
Marsden H. R., Ltd. .... Soho Foundry, Leeds  
Marshall, Sons & Co., Ltd. .. Gainsborough  
Patent Lightning Crusher } 144, Rosebery Ave., Gray's  
Co., Ltd. .... } Inn Rd., E.C.  
Wood Hugh, & Co., Ltd. .... 65, Fenchurch St., E.C.

**Grinding and Polishing Machinery.—(See Emery Grind-  
ing Machinery.)****Grinding and Polishing Wheels.—(See Emery Wheels.)****Grindstones.****Gunpowder and Gun-Cotton Machinery.**

Taylor & Challen, Ltd. .... Birmingham

**Guns and Gun Forgings.**

Brown John, & Co., Ltd. .... Sheffield  
Firth Thos., & Sons, Ltd. .... Norfolk Works, Sheffield  
Vickers Limited .. Sheffield

**Gyroscopes.**

Sperry Gyroscope Co., Ltd. .. 15, Victoria St., S.W.

**Hammers (Drop).**

Brett's Patent Lifter Co., Ltd. .. Coventry  
Massey B. & S., Ltd. .... Openshaw, Manchester  
Platt Samuel, Ltd. .... Wednesbury  
Ross R. G., & Son, Ltd. .... Glasgow

**Hammers (Power).—(See also Steam Hammers.)**

Alldays & Onions (Pneuma-  
tic Engineering) Co., Ltd. .. Birmingham  
Consolidated Pneumatic } Palace Ch'brs, 9, Bridge  
Tool Co., Ltd. .... } St., Westminster, S.W.  
Globe Pneumatic Engineer-  
ing Co., Ltd. .... } 1, Victoria St., Westmin-  
ster, S.W.  
Ingersoll-Rand Co. .... 165, Qn. Victoria St., E.C.

**Hammers, Power.**—(See also *Steam Hammers*).—*Continued.*

Massey B. & S., Ltd. .. Openshaw, Manchester  
 Nasmyth, Wilson & Co., Ltd. .. Patricroft, Manchester  
 Player W. & J. .. .. Birmingham  
 Ross R. G. & Son, Ltd. .. .. Glasgow  
 Walber W. A., & Co. .. .. 38, Victoria St., S.W.

**Hammers (Steam).**—(See *Steam Hammers*.)**Haulage Plants.**—(See also *Engines—Winding*.)

Barclay Andrew, Sons & Co., Ltd. .. Caledonia Wks., Kilmarnock, Scotland  
 British Electric Plant Co., Ltd. .. 78, St. Vincent St., Glasgow  
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.  
 Heenan & Prout, Ltd. .. Worcester  
 Higginbottom & Mannock, Ltd. .. Crown Ironworks, West Gorton, Manchester  
 Lidgerwood Manufacturing Co. .. Friars House, New Broad St., E.C.  
 Marshall, Sons, & Co., Ltd. .. Gainsborough  
 Robey & Co., Ltd. .. Lincoln  
 Ross R. G. & Son, Ltd. .. Glasgow  
 Ruston, Proctor & Co., Ltd. .. Sheaf Ironworks, Lincoln  
 Walker Bros. (Wigan), Ltd. .. Pagefield Iron Works, Wigan  
 Yates & Thom, Ltd. .. Canal Works, Blackburn

**Heating Apparatus.**

American Steel Export Co. .. Woolworth Bldg., New York, U.S.A.  
 Brightside Foundry & Engineering Co., Ltd. .. Sheffield  
 Davidson & Co., Ltd. .. Belfast  
 Horne Engineering Co. .. St. Peters Lane, Glasgow  
 Keith James, & Blackman Co., Ltd. .. 27, Farrington Avenue, E.C.  
 Musgrave & Co., Ltd. .. Belfast  
 Royles, Ltd. .. Irlam, nr. Manchester  
 Standard Engineering Co., Ltd. .. Leicester  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.  
 Thermotank Co. .. 55, West Regent St., Glasgow  
 Tullis D. & J., Ltd. .. Kilmorie Ironworks, nr. Glasgow  
 Westinghouse Brake Co., Ltd. .. 82, York Rd., N.  
 Wright's Forge and Eng. Co., Ltd. .. Tipton, Staffs

**Hinges.****Hoisting Machinery.**—(See also *Cranes*.)

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester  
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Brown Hoisting Machinery Co. .. .. Cleveland, Ohio, U.S.A.  
 Chaplin Alex., & Co. .. .. Govan, Glasgow  
 Clarke, Chapman & Co., Ltd. .. Gateshead-on-Tyne  
 Coles H. J., Ltd. .. .. Derby  
 Consolidated Pneumatic Tool Co., Ltd. .. .. Palace Ch'brs, 9, Bridge St., Westminster, S.W.  
 Craven Brothers (Manchester), Ltd. .. .. Vauxhall Wks., Reddish, Stockport  
 Davey, Paxman & Co., Ltd. .. Colchester  
 Electromotors Ltd. .. Openshaw, Manchester  
 Figue, Ltd. .. .. Haarlem, Holland  
 Gibbins R. C., & Co. .. .. Berkeley St., Birmingham  
 Goodall, Clayton & Co., Ltd. .. Hunslet, Leeds

**Hoisting Machinery.**—(See also *Cranes*).—*Continued.*

Head, Wrightson & Co., Ltd. .. Teesdale Ironwks, Thornaby-on-Tees  
 Higginbottom & Mannock, Ltd. .. .. West Gorton, Manchester  
 Holt & Willetts .. .. Lion Works, Cradley Heath  
 Jack Alexander, & Co. .. Motherwell  
 Lidgerwood Mfg. Co. .. Friars House, New Broad St., E.C.  
 Priestman Brothers, Ltd. .. Holderness Fndry, Hull  
 Ransomes, Sims & Jefferies, Ltd. .. Ipswich  
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Robey & Co., Ltd. .. Lincoln  
 Ross R. G. & Son, Ltd. .. Glasgow  
 Royce, Ltd. .. Trafford Pk., Manchester  
 Ruston, Proctor & Co., Ltd. .. Sheaf Ironworks, Lincoln  
 Selson Engineering Co., Ltd. .. 85, Qn. Victoria St., E.C.  
 Tangyes Limited .. .. Birmingham  
 Vaughan Crane Co., Ltd. .. Openshaw, Manchester  
 Waygood-Otis, Ltd. .. Falmouth Rd., S.E.  
 Whitakers (Engineers), Ltd. .. Horsforth, Leeds  
 Willets Charles, Junr. .. Cradley Heath, Staffs  
 Wonham, Bates & Goode (Inc.) .. 17, Battery Place, New York City, U.S.A.  
 Youngs .. .. Birmingham

**Hose Pipes.**

Bell's United Asbestos Co., Ltd. .. 59, Southwark St., S.E.  
 Gutta Percha & Rubber, Ltd. .. Toronto, Canada  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. .. Silvertown, E.  
 Merryweather & Sons, Ltd. .. 63, Long Acre, W.C.  
 Reddaway F. & Co., Ltd. .. Pendleton, Manchester  
 Tullis John, & Son .. St. Ann's Leather Wks. Glasgow  
 Wilcox W. H., & Co., Ltd. .. 32-38, Southwark St., S.E.  
 Woodite Works .. .. Mitcham Common, Surrey  
 Worthington Pump Co., Ltd. .. Queen's House, King'sway, W.C.

**Hydrants.**

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Blakeborough J., & Sons, Ltd. .. Woodhouse Wks., Brigg-house  
 Glenfield & Kennedy, Ltd. .. Kilmarnock, N.B.

**Hydraulic Machinery.**

Arrol Sir William, & Co., Ltd. .. Dalmarnock Ironworks, Bridgeton, Glasgow  
 Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester  
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Carruthers J. H., & Co., Ltd. .. Polmadie Ironwks., Glasgow  
 Cowans, Sheldon & Co., Ltd. .. Carlisle [gow  
 Craven Brothers (Manchester), Ltd. .. Vauxhall Wks., Reddish, Stockport  
 Davy Brothers, Ltd. .. Sheffield  
 Drysdale & Co., Ltd. .. Bon Accord Wks., Yoker, [Glasgow, W.  
 East Ferry Road Engineering Works Co., Ltd. .. Millwall, E.  
 Fullerton, Hodgart and Barclay, Ltd. .. Vulcan Foundry and Engine Works, Paisley  
 Glenfield & Kennedy, Ltd. .. Kilmarnock, N.B.  
 Hathorn, Davey & Co., Ltd. .. Leeds  
 Hayward-Tyler & Co., Ltd. .. 99, Queen Victoria St., B.C.  
 Marshall, Fleming & Co. .. Motherwell, N.B.  
 Middleton Robert, & Co. .. Sheepscar Foundry, Leeds

**Hydraulic Machinery.—Continued.**

Musgrave Bros. .. .. Crown Point Foundry,  
Leeds  
Nasmyth, Wilson & Co., Ltd. Bridgewater Fdry, Patri-  
croft, near Manchester  
25, Victoria St., S.W.  
Pitman Percy .. .. Nine Elms Ironworks,  
Co., Ltd. .. .. Reading  
Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
Rose, Downs & Thompson,  
Ltd. .. .. Old Foundry, Hull  
Selson Engineering Co., Ltd. 85, Queen Victoria St.,  
B.C.  
Smith Hugh, & Co., Ltd. Possil Engine Works,  
Glasgow  
London Rd. Ironworks,  
(Glasgow)  
Stewart Duncan, & Co., Ltd. Philadelphia, U.S.A.  
Southwark Foundry &  
Machine Co. .. .. Birmingham  
Tangyes Limited .. ..

**Hydraulic Presses.—(See also Forging Presses.)**

Arrol Sir William, & Co., Dalmarnock Ironworks,  
Ltd. .. .. Bridgeton, Glasgow  
Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Berry Henry, & Co., Ltd. Croydon Works, Leeds  
Bessemer Hy., & Co., Ltd. Sheffield  
Blackall F. S. .. .. Woolworth Tower, New  
York, U.S.A.  
Sheffield  
Davy Brothers, Ltd. Millwall, E.  
East Ferry Road Engineer-  
ing Works Co., Ltd. Liverpool  
Fawcett, Preston & Co., Ltd. Gloucester  
Fielding & Platt, Ltd. .. Hecla Works, Sheffield  
Hadfield's Limited .. 99, Queen Victoria St., E.C.  
Hayward-Tyler & Co., Ltd. Thimble Mill Lane, Bir-  
mingham  
Hollings & Guest, Ltd. ..

Holt & Willetts .. .. Lion Wks., Cradley Heath  
Nottingham  
Manlove, Alliott & Co., Ltd. Sheepscar Foundry, Leeds  
Middleton Robert, & Co., Crown Point Fdry, Leeds  
Musgrave Bros. .. .. Bridgewater Fdry, Patri-  
croft, nr. Manchester  
Nasmyth, Wilson & Co., Ltd. Springhill, Birmingham  
Elland Rd., Leeds

Piggott Thos., & Co., Ltd. Old Foundry, Hull  
Rice & Co. (Leeds), Ltd. .. Possil Engine Works,  
Glasgow  
Rose, Downs & Thompson,  
Ltd. .. .. Philadelphia, U.S.A.  
Smith Hugh, & Co., Ltd. .. London Rd. Ironworks,  
Glasgow  
Southwark Foundry &  
Machine Co. .. .. Bath (Glasgow)  
Stewart Duncan, & Co., Ltd. Cornwall Wks., Birm'ham  
Stothert & Pitt, Ltd. .. Birmingham  
Tangyes Limited .. .. Falmouth Rd., S.B.  
Taylor & Challen, Ltd. ..  
Waygood-Otis, Ltd. ..

**Hydraulic Rams.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Keith James, & Blackman  
Co., Ltd. .. .. 27, Farringdon Av., B.C.  
Hydro-Extractors.—(See Centrifugal Drying Machines.)  
Hydrokineters and Temperature Equalizers.  
Brundrit Joseph .. .. 14, Water St., Liverpool  
Weir G. & J., Ltd. .. .. Holm Foundry, Cathcart,  
Glasgow

**Ice-Making Machines.—(See also Refrigerating Machinery.)**

Allen W. H., Son, & Co., } Queen's Engineering  
Ltd. .. .. } Works, Bedford

**Ice-Making Machines.—(See also Refrigerating Machinery).—Continued.**

Escher, Wyss & Co. .. 109, Victoria St., S.W.  
Hall J. & B., Ltd. .. Dartford Ironworks, Kent  
Mirrlees Watson Co., Ltd. .. Scotland St., Glasgow  
Pontifex & Wood, Ltd. .. Union Foundry, Derby  
Pulsometer Engineering } Nine Elms Ironworks,  
Co., Ltd. .. .. Reading  
Seagers, Ltd. .. .. Dartford [gow  
Sterne L., & Co., Ltd. .. Crown Ironworks, Glas-

**Igniters (Electric).**

Lodge Sparking Plug Co., } Wrentham St., Birming-  
Ltd. .. .. } ham

**Incandescent Lamps.**

British Thomson-Houston  
Co., Ltd. .. .. Rugby

**India-rubber Goods.—(See also Ebonite, and Woodite for Steam, &c., Packings.)**

Bell's United Asbestos Co.,  
Ltd. .. .. 59½, Southwark St., S.B.  
Toronto, Canada  
Gutta Percha & Rubber, Ltd.  
India-Rubber, Gutta Percha  
& Telegraph Works Co., Ltd. Silvertown, E.  
Reddaway F., & Co., Ltd. Pendleton, Manchester  
Woodite Works .. .. Mitcham Common, Surrey

**Indicators and Indicator Gear (Steam and Gas Engine).**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Crosby Valve & Engineer-  
ing Co., Ltd. .. .. 147, Queen Victoria St.,  
E.C.  
Dobbie, McInnes, Ltd. .. 57, Bothwell St., Glasgow  
Hannan & Buchanan .. 75, Robertson St., Glas-  
gow  
Negretti & Zambra .. 38, Holborn Viaduct, E.C.

**Injectors.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Davies & Metcalfe, Ltd. Romley, Manchester  
Dempster, Moore & Co., Ltd. 49, Robertson St., Glas-  
gow

Green & Boulding, Ltd. .. 28, New Bridge St., B.C.  
Gresham & Craven, Ltd. .. Manchester  
Jenkins Bros., Ltd. .. 95, Queen Victoria St., E.C.  
Lunken Company, Ltd. .. 35, Great Dover St., S.B.  
Manlove, Alliott & Co., Ltd. Nottingham  
Willcox W. H., & Co., Ltd. 32 to 38, Southwark St.,  
S.B.

**Inks.**

Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester

**Instruments (Electrical, Surveying, Testing, &c.).**

British Thomson-Houston  
Co., Ltd. .. .. Rugby  
Engineering Supplies, Ltd. 28, Victoria St., S.W.  
Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester  
Kelvin, Bottomley & Baird,  
Ltd. .. .. 16-20, Cambridge St.,  
Glasgow  
Kern & Co. .. .. Aarau, Switzerland  
Lea Recorder Co., Ltd. .. 28, Deansgate, Manchester  
Negretti & Zambra .. 28, Holborn Viaduct, E.C.  
Shore Instrument & Mfg. Co. New York

**Insulating Materials.**

Wiggins F., & Sons .. 102 and 103, Minories, B.  
Woodite Works .. .. Mitcham Common, Surrey

**Insurance Companies.—(See also Boiler Inspection & Insurance Societies.)****Iron Founders.—(See Castings, Iron.)**

**Iron Merchants.**

|                            |                             |
|----------------------------|-----------------------------|
| Birch John, & Co., Ltd.    | 2, London Wall Bldgs., E.C. |
| Cooke William, & Co., Ltd. | Sheffield                   |
| Henderson & Glass          | Liverpool                   |

**Iron (Fig.).**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Butterley Co., Ltd.            | Derby                               |
| Clay Cross Co., Ltd.           | Clay Cross, Derbyshire              |
| Glasgow Iron & Steel Co., Ltd. | Wishaw Iron and Steel Works, Wishaw |

**Iron and Steel Buildings.—(See Structural Engineering.)****Iron and Steel Works (Plant for).—(See also Crucibles, Cupolas, Forging Machines, Hammers—Power, Presses—Power.)**

|                                    |                                 |
|------------------------------------|---------------------------------|
| Ashmore, Benson, Pease & Co., Ltd. | Stockton-on-Tees                |
| Berry Henry, & Co., Ltd.           | Croydon Works, Hunslet, Leeds   |
| Craig & Donald, Ltd.               | Johnstone, nr. Glasgow          |
| Dalglish A. & W.                   | Pollokshaws, Glasgow            |
| Davy Brothers, Ltd.                | Sheffield                       |
| Dowson & Mason Gas Plant Co., Ltd. | Levenshulme, Manchester         |
| Galloways, Ltd.                    | Manchester                      |
| Goodall, Clayton & Co., Ltd.       | Hunslet, Leeds                  |
| Harvey Engineering Co., Ltd.       | Glasgow                         |
| Head, Wrightson & Co., Ltd.        | Thornaby-on-Tees                |
| Heenan & Froude, Ltd.              | Manchester                      |
| Lilleshall Co., Ltd.               | Oakengates, Shropshire          |
| Marsden H. R., Ltd.                | Soho Foundry, Leeds             |
| Musgrave Bros.                     | Crown Point Fndy, Leeds         |
| Rice & Co. (Leeds), Ltd.           | Elland Rd., Leeds               |
| Robson E. Capper & Co., Ltd.       | 1, North Rd., Darlington        |
| Siemens Bros. Dynamo Works, Ltd.   | Caxton House, Westminster, S.W. |
| Yates & Thom, Ltd.                 | Canal Works, Blackburn          |

**Jacks (Lifting).**

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dempster, Moore & Co.         | 49, Robertson St., Glasgow               |
| Gibbins R. C. & Co.           | Berkley St., Birmingham                  |
| Holt & Willetts               | Lion Wks., Cradley Heath                 |
| Tangyes Limited               | Birmingham                               |
| Willetts Charles, Junr., Ltd. | Cradley Heath, Staffs.                   |
| Wonham, Bates & Goode (Inc.)  | 17, Battery Place, New York City, U.S.A. |
| Youngs                        | Ryland St. Wks., B'ham                   |

**Joining Materials.—(See also Asbestos Goods, &c., India-rubber Goods, and Packing—Engine & Hydraulic.)**

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Beldam Packing & Rubber Co., Ltd. | 1 & 2, Gracechurch St., E.C.          |
| Bell's United Asbestos Co., Ltd.  | 593, Southwark St., S.E.              |
| Graphite Products, Ltd.           | 218-220, Queen's Rd., Battersea, S.W. |
| Hobdell, Way & Co., Ltd.          | St. John's House, 124-5, Minories, E. |
| Jenkins Bros., Ltd.               | 95, Queen Victoria St., E.C.          |
| Metallic Manufacturing Co., Ltd.  | Arddrossan                            |
| Notcutt Walter P., Ltd.           | 8, White St., B.C.                    |
| Thomas & Bishop                   | 37, Tabernacle St., E.C.              |

**Joints, Rolled (Iron and Steel).**

|                             |                          |
|-----------------------------|--------------------------|
| Lanarkshire Steel Co., Ltd. | Motherwell               |
| Scott Walter, Ltd.          | Leeds Steel Works, Leeds |

**Kilns.**

|                              |                  |
|------------------------------|------------------|
| Fletcher George, & Co., Ltd. | Litchurch, Derby |
|------------------------------|------------------|

**Ladders and Steps.****Ladies.**

|                          |                                 |
|--------------------------|---------------------------------|
| Clayton Son, & Co., Ltd. | Hunslet, Leeds                  |
| McNeil C., Ltd.          | Kinning Park Ironworks, Glasgow |
| Monometer Mfg. Co., Ltd. | Aston, Birmingham               |

**Lamps.—(See also Electric Lighting & Power Plant, and Incandescent Lamps.)**

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Allen-Liversidge, Ltd.            | 106, Victoria St., S.W.            |
| British Thomson-Houston Co., Ltd. | Rugby                              |
| Dick, Kerr & Co., Ltd.            | Abchurch Yard, Cannon St., E.C.    |
| Guest & Chrimes                   | Rotherham                          |
| Low Archibald, & Sons             | 28A, Renfield St., Glasgow         |
| Sun Electrical Co., Ltd.          | 118 & 120, Charing Cross Rd., W.C. |
| Wells A. C. & Co.                 | 102, Midland Rd., N.W.             |

**Lathes.—(See Machine Tools.)****Launches & Yachts.—(See also Motor Boats.)**

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| Alley & Maclellan, Ltd.        | Sentinel Works, Glasgow                         |
| Boulton & Paul, Ltd.           | Norwich                                         |
| Burnet L. & Co.                | Govan, Glasgow                                  |
| Chaplin Alex., & Co.           | Glasgow                                         |
| Cochran & Co. (Annan), Ltd.    | Annan, N.B.                                     |
| Day, Summers & Co., Ltd.       | Southampton                                     |
| Escher, Wyss & Co.             | 109, Victoria St., S.W.                         |
| Fleming & Ferguson, Ltd.       | Paisley, N.B.                                   |
| Hayes Edward                   | Stony Stratford, Wol-                           |
| McKie & Baxter                 | Govan, Glasgow [verton                          |
| Normand Augustin               | 67, Rue du Perrey, Le Havre, France             |
| Ross & Duncan                  | Whitefield Wks, Glasgow                         |
| Simons W. & Co., Ltd.          | Renfrew, N.B.                                   |
| Smit L. & Zoon                 | Kinderdijk, Holland                             |
| Thornycroft J. I., & Co., Ltd. | Southampton and Caxton House, Westminster, S.W. |
| Vosper & Co., Ltd.             | Portsmouth [S.W.]                               |
| Yarrow & Co., Ltd.             | Glasgow                                         |

**Laundry Machinery.—(See also Centrifugal Drying Machines, and Drying Apparatus.)**

|                              |                         |
|------------------------------|-------------------------|
| Manlove, Alliott & Co., Ltd. | Nottingham [Glasgow     |
| Tullis D. & J., Ltd.         | Kilbowie Ironworks, nr. |

**Leathers (Hydraulic, &c.).**

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Leathers Company (Altrincham, Ltd.) | Altrincham, near Manchester, Ltd. |
| Stevens H. J. & Son                 | 121, New North Rd., N.            |

**Lifts.**

|                               |                                        |
|-------------------------------|----------------------------------------|
| Bailey Sir W. H. & Co., Ltd.  | Salford, Manchester                    |
| Berry Henry, & Co., Ltd.      | Croydon Works, Leeds                   |
| Gibbins R. C. & Co.           | Berkley St., Birmingham                |
| Holt & Willetts               | Lion Wks., Cradley Heath               |
| Rice & Co. (Leeds), Ltd.      | Elland Rd., Leeds                      |
| Tangyes Limited               | Birmingham                             |
| Waygood-Otis, Ltd.            | Falmouth Rd., S.B.                     |
| Willetts Charles, Junr., Ltd. | Colonial Works, Cradley Heath, Staffs. |

**Light Railways.—(See Railways—Light and Portable.)**

**Lighters.**—(See *Barges*.)**Lighting Apparatus.**—(See also *Electric Lighting Plant*.)

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.  
 Imperial Light, Limited .. 123, Victoria St., S.W.  
 India-Rubber, Gutta Percha  
 & Telegraph Works Co., Ltd. Silvertown, E.  
 Keith James & Blackman .. 27, Farringdon Avenue,  
 Co., Ltd. .. E.C.  
 Wells A. C. & Co. .. 102, Midland Rd., N.W.

**Lighting Conductors.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester

**Liquid Fuel.**

Anglo-Mexican Petroleum  
 Products Company, Ltd. Finsbury Court, E.C.  
 Kermodes Ltd. .. 35, The Temple, Dale St.,  
 Liverpool

**Lock Nuts and Nut-Locking Appliances.**

Bayliss, Jones & Bayliss, Ltd. Wolverhampton  
 Grover & Co., Ltd. .. Carpenter's Rd., Strat-  
 ford, E.  
 Positive Lock Washer Co. 118-122, James Watt St.,  
 Glasgow  
 Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.  
 Visiok Ltd. .. 3, St. Bride's House,  
 Salisbury Sq., E.C.

**Locomotive Engines.**—(See *Engines, Locomotive*.)**Locomotives (Mountings for).**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Barclay Andrew, Sons & Co., Caledonia Works, Kil-  
 marnock  
 Hopkinson J., & Co., Ltd. Huddersfield  
 Lunken Co., Ltd. .. 35, Great Dover St., S.B.

**Looms.****Lubricants (Cutting).**

Adams British Oil Co., Ltd. Deptford, S.E.  
 Sterns, Ltd. .. 16, Finsbury Sq., E.C.

**Lubricants and Oils.**

Bell's United Asbestos Co.,  
 Ltd. .. 59½, Southwark St., S.E.  
 Graphite Products Ltd. .. 218-220, Queen's Rd.,  
 S.W.  
 Mountford Fredk., Ltd. .. Birmingham  
 Sterns, Ltd. .. 16, Finsbury Sq., E.C.  
 Thomas & Bishop .. 37, Tabernacle St., E.C.  
 Tranter's W. J., Boiler  
 Appliance Co. .. Tipton, Staffordshire  
 Trier Bros., Ltd. .. 36, Victoria St., S.W.  
 Willcox W. H., & Co., Ltd. 32-38, Southwark St., S.B.

**Lubricators.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Bell's United Asbestos Co.,  
 Ltd. .. 59½, Southwark St., S.E.  
 Butterworth Bros., Ltd. .. Manchester  
 Crosby Valve & Engineering .. 147, Queen Victoria St.,  
 Co., Ltd. .. E.C.  
 Jenkins Bros., Ltd. .. 95, Queen Victoria St.,  
 E.C.  
 Lees T. & R. .. Hollinwood, near Man-  
 chester  
 Lunken Co., Ltd. .. 35, Great Dover St.,  
 S.B.  
 Piggott Thos., & Co. .. Springhill, Birmingham

**Lubricators.**—Continued.

Rimington Bros. .. Abbey St., Carlisle  
 Steam Cylinder Lubricator } Gordon Works, Lower  
 Co., Ltd. .. Broughton, Manchester  
 Sterns, Ltd. .. 16, Finsbury Sq., E.C.  
 Tanyes Limited .. Birmingham  
 Trier Brothers, Ltd. .. 36, Victoria St., S.W.  
 Vickers Benjn. R., & Sons,  
 Ltd. .. Leeds  
 Wakefield C. C., & Co. .. Wakefield House, Cheap-  
 side, E.C.  
 Willcox W. H., & Co., Ltd. 32 to 38, Southwark St.,  
 S.B.

**Machine Tools.**—(See also *Chucks, Second-hand Tools, &c., and Tools—Hand and Small*.)

Archdale Jas., & Co., Ltd. .. Lednam St., Birmingham  
 Asquith William, Ltd. .. Park Works, Halifax  
 Backer, Spink, Lease & Co. Shipley, Yorks  
 Berry F., & Sons .. Sowerby Bridge  
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Bertrams Limited .. Sciennes, Edinburgh  
 Beyer, Peacock & Co., Ltd. Gorton Foundry, Man-  
 chester  
 Bromell Patents Co., Ltd. Glasgow  
 Buckton Joshua, & Co., Ltd. Leeds  
 Butler J., & Co. .. Victoria Ironworks, Halli-  
 fax, Eng.  
 Cameron John, Ltd. .. Oldfield Road Ironworks,  
 Salford  
 Campbells & Hunter, Ltd. Dolphin Foundry, Leeds  
 Chambers, Scott & Co., Ltd. Motherwell  
 Churchill Chas., & Co., Ltd. 9 to 15, Leonard St., E.C.  
 Clifton & Waddell .. Johnstone, nr. Glasgow  
 Coast Machine Tool Co., .. Palace Chambers, Bridge  
 Ltd. .. St., Westminster, S.W.  
 Consolidated Pneumatic .. Palace Ch'rs, 9, Bridge  
 Tool Co., Ltd. .. St., Westminster, S.W.  
 Craig & Donald, Ltd. .. Johnstone, nr. Glasgow  
 Craven Bros. (Manchester), .. Vauxhall Wks, Reddish,  
 Ltd. .. Stockport  
 Dalton Machine Co. (Inc.) 1911, Park Av., New  
 York, U.S.A.  
 Darling & Sellers, Ltd. .. Keighley  
 Davis & Primrose, Ltd. .. Bangor Rd., Leith, N.B.  
 Dempster, Moore & Co., Ltd. 49, Robertson St., Glasgow  
 Dickinson Machine Tool .. Devonshire Works,  
 Co., Ltd. .. Keighley  
 Drummond Bros., Ltd. .. Bngel Wks., nr. Guildford  
 Enterprise Engineering Co. 19, Bright St., Aston,  
 Birmingham  
 Flower J. W., & Co. .. Eclipse Wks., Wimborne,  
 Dorset  
 Graham Mfg. Co. .. Providence, Rhode Is-  
 land  
 Haighs (Oldham), Ltd. .. Globe Ironworks, Oldham  
 Harvey G. & A., Ltd. .. Govan, Glasgow, W.  
 Heap Joshua, & Co., Ltd. .. Ashton-under-Lyne  
 Herbert Alfred, Ltd. .. Coventry  
 Honeywill Bros. .. 79, Mark Lane, E.C. 3  
 Houston, Stanwood &  
 Gamble Co. .. Cincinnati, U.S.A.  
 Imperial Motor Industries,  
 Ltd. .. 11, Denmark St., W.C.  
 International Machine Tool .. 1514, Prospect Av.,  
 Co. (Inc.) .. Cleveland, Ohio, U.S.A.  
 Jones A.A., & Shipman, Ltd. East Park Rd., Leicester  
 Jones & Lamson Machine Co. 109, Qn. Victoria St., E.C.  
 Judson-Jackson Co., Ltd. 50, Marsham St., West-  
 minster, S.W.



**Machine Tools.**—(See also *Chucks, Second-hand Tools, &c., and Tools—Hand and Small.*)—Continued.

Kearns, H. W., & Co., Ltd. Broadheath, nr. Manchester  
 Lang J., & Sons .. .. Johnstone, N.B.  
 Lash Robert H. .. .. 29-31, Portugal St., W.C.  
 Lloyd, Richard & Co. .. .. Galton Works, Steelhouse Lane, Birmingham.  
 Loudon Brothers, Ltd. .. 39, West Campbell St., Glasgow

M'Kendrick W. D., & Co. Oakfield Wks., Motherwell, N.B.

Maiden & Co., Ltd. .. .. Hyde, Cheshire  
 Mikron, Ltd. .. .. Bienne, Switzerland  
 Muir Wm., & Co., Ltd. .. .. Sherbourne St., M'chester  
 Musgrave Bros. .. .. Crown Point Foundry, Leeds  
 National Lathe Co. .. .. Cincinnati, Ohio.  
 Niles-Bement-Pond Co. .. 111, Broadway, New York, U.S.A.

Niles-Bement-Pond Co. .. 23 & 25, Victoria St., S.W.  
 Noble & Lund, Ltd. .. .. Felling, nr. Newcastle-on-Tyne

Oster Mfg. Co. .. .. Cleveland, Ohio, U.S.A.  
 Parkinson J., & Son .. .. Shipley, Yorkshire  
 Payne & Sons (Otley), Ltd. Atlas Works, Otley, Yorks  
 Pearn Frank, & Co., Ltd. Manchester  
 Phoenix Dynamo Mfg. Co., Ltd. Thornbury Works, Bradford  
 Pierce Machine Tool Co. 617w, Jackson Bldg., Chicago, U.S.A.

Pollard Fredk., & Co., Ltd. Corona Works, Leicester  
 Pollock & Macnab, Ltd. .. Bredbury, nr. Stockport  
 Purden Charles, Ltd. .. .. Lancaster St., Birmingham  
 Rahn-Larmon Co. .. .. Cincinnati, Ohio, U.S.A.  
 Redman C., & Sons .. .. Dunkirk, Halifax  
 Rhodes Mfg. Co. .. .. Hartford, Conn., U.S.A.

Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Richards Geo., & Co., Ltd. Broadheath, nr. M'chester  
 Scott Bros. .. .. West Mount, Halifax  
 Scott Bros. (Keighley) .. Albion Works, Keighley  
 Scriven & Co. .. .. Leeds

Selson Engineering Co., Ltd. 85, Queen Victoria St., E.C.  
 Shanks Thomas, & Co. .. .. Johnstone  
 Smith & Coventry, Ltd. .. Ordsal Lane, Manchester

Smith, Barker, Willson & Co. .. .. Halifax [Glasgow  
 Smith Hugh, & Co., Ltd. .. Possil Engine Works,  
 Spencer James, & Co., Ltd. Hollinwood, Manchester  
 Steine Turret Machine Co. 53, Victoria St., S.W.  
 Steptoe John, & Co. .. .. Camp Washington, Cincinnati, Ohio, U.S.A.

Stirk John, & Sons, Ltd. .. Halifax  
 Swift George, & Sons, Ltd. Range Bank, Halifax  
 Swinney Brothers, Limited Morpeth, Northumberland  
 Swiss Machine Tool Works Oerlikon, Switzerland  
 Tangyes Limited .. .. Birmingham  
 Taylor Charles (Birmingham), Ltd. Bartholomew Square, Birmingham

Timbrell & Wright Machine Tool & Eng. Co., Ltd. .. Birmingham  
 Tullis D. & J., Ltd. .. .. Kilbowie Ironworks, nr. Glasgow

Universal Machinery Corporation, Ltd. .. 326, Old St. (Shoreditch), E.C.

Walber W. A. & Co. .. .. 38, Victoria St., S.W.  
 Ward, Hargis & Smith .. Eastwood, Keighley  
 Ward H. W., & Co., Ltd. .. Lionel St., Birmingham  
 Ward Thos. W., Ltd. .. .. Albion Works, Sheffield  
 Webster & Bennett, Ltd. Foleshill, Coventry  
 Welborne & Co. .. .. Southerly Bldg., New York, U.S.A.

**Machine Tools.**—(See also *Chucks, Second-Hand Tools, &c., and Tools—Hand and Small.*)—Continued.

Whiteley James, Ltd. .. .. Eagle Works, Well Lane, Halifax

Wilkinson G., & Sons .. .. Keighley  
 Winn Charles, & Co. .. .. Granville Place, Birmingham

Wisconsin Electric Co. .. .. Racine, Wisconsin, U.S.A.  
 Wolseley Motors, Ltd. .. .. York St., Westminster, S.W.

**Machining for the Trade.**

Monk Engineering Co., Ltd. .. High Street, Coventry

Rosser & Russell, Ltd. .. .. Queen's Wharf, Hamersmith

**Magnets.**—(See *Separators, Magnets, &c.*)**Magnets (Lifting).**

Igranle Electric Co., Ltd. 147, On. Victoria St., B.C.  
 Smith Thos., & Sons .. .. Rodley, near Leeds  
 Westminster Tool & Electric Co. .. .. Laurence Pountney Hill, B.C.  
 Wonham, Bates & Goode (Inc.) .. .. 17, Battery Place, New York City, U.S.A.

**Magnetos.**

British Lighting and Ignition Co., Ltd. .. 204, Tottenham Court Road, W.

**Manganese Steel Castings and Forgings.**

Allen Edgar, & Co., Ltd. .. Sheffield  
 American Steel Foundries 5, Laurence Pountney Hill, E.C.

Firth Thos., & Sons, Ltd. .. .. Norfolk Works, Sheffield  
 Hadfields Limited .. .. Hecla Works, Sheffield

Osborn Samuel, & Co., Ltd. Clyde Steel Wks., Sheffield

Steven & Struthers .. .. Kelvinhaugh, Glasgow

**Manhole Doors.**—(See also *Boiler Manholes.*)

McNeill C., Ltd. .. .. Glasgow

**Manufacturers.**—(See also *Patent Law.*)**Mathematical Instrument Makers.**—(See *Drawing Instruments.*)**Measuring Machines.**—(See *Micrometers.*)**Mechanical Engineers (Consulting).**

Davey, Paxman & Co., Ltd. Colchester

**Merchants (Machinery, &c.).**

Birch John, & Co., Ltd. .. 2, London Wall Buildings, B.C.

Jennings B. J. .. .. West Walls, Newcastle-on-Tyne

MacLellan P. & W., Ltd. .. Clapham Works, Glasgow  
 Willcox W. H., & Co., Ltd. 32-38, Southwark St., S.B.

**Metallic Packing.**

Green & Boulding, Ltd. .. 28, New Bridge St., B.C.  
 Haughton's Patent Metallic Packing Co., Ltd. .. 30, St. Mary-at-Hill, E.C.

Lancaster & Tonge, Ltd. .. Pendleton, nr. Manchester.  
 Oldham Alexander, & Sons Dukinfield

United States Metallic Packing Co., Ltd. .. Soho Works, Allerton Rd., Bradford

**Metals (Alloy Steels).**

Rowlands T., & Co., Ltd. Sheffield  
 Vanadium Alloys Steel Co. Latrobe, Penn., U.S.A.

**Metals (Anti-Friction).**

Atlas Metals & Alloys Co., Ltd. 52, Qn. Victoria St. B.C.  
 Birkett T. M., & Sons, Ltd. Hanley, Staffs.  
 Bull's Metal & Melloid Co. Yorker, near Glasgow.  
 Glacier Anti-Friction Metal } Waldo Rd., Willesden  
 Co., Ltd. } Junction, N.W.  
 Hoyt Metal Co., Ltd. 26, Billiter St., E.C.3  
 Magnolia Anti-Friction Metal }  
 Co. of Great Britain, Ltd. 49, Qn. Victoria St., E.C.  
 Richards J. H., & Co., Ltd. Cato St. North, Salfrey,  
 Birmingham

**Metals (Phosphor Alloys, &c.).**

Atlas Metal & Alloys Co., Ltd. 52, Qn. Victoria St., B.C.  
 Billington & Newton, Ltd. Longport, Staffordshire  
 Birkett T. M., & Sons, Ltd. Hanley, Staffordshire  
 Bolton Thomas, & Sons, Ltd. 57, Bishopsgate, E.C.2  
 British Thermit Co., Ltd. 49 & 51, The Albany,  
 Liverpool

Bull's Metal & Melloid Co., Ltd. Yorker, near Glasgow  
 Delta Metal Co., Ltd. East Greenwich, S.E.  
 Glacier Anti-Friction Metal } Waldo Rd., Willesden  
 Co., Ltd. } Junction, N.  
 Hooper Edgar A. J., Ltd. 21-31, New Summer St.,  
 Birmingham  
 Lunken Company, Ltd. 35, Great Dover St., S.B.  
 McKechnie Brothers, Ltd. Rotton Park St., Bir-  
 mingham

Magnolia Anti-Friction Metal Co., of Great Britain, Ltd. 49, Queen Victoria St., B.C.

Metallurgical Co., Ltd. Walker Gate, Newcastle-on-Tyne

Muntz P. H., & Co., Ltd. Alexandra Works, West Bromwich  
 National Alloys, Ltd. Allitor Fdy, Ilford, Essex  
 Phosphor Bronze Co., Ltd. 87-91, Summer Street,  
 Southwark, S.E.

Steven & Struthers Kelvinhaugh, Glasgow  
 Vickers Limited Vickers House, Broad-  
 way, Westminster, S.W.

**Meters.**

Glenfield & Kennedy, Ltd. Kilmarnock, N.B.  
 Guest & Chrimes Rotherham  
 Lea Recorder Co., Ltd. 28, Deansgate, M'chester  
 Siemens Bros. & Co., Ltd. Caxton House, Westmin-  
 ster, S.W.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

**Misc Merchants**

Wiggins F., & Sons 102, 103 & 104, Minorities, E.

**Micrometers.**

Metallurgical Co., Ltd. Walker Gate, Newcastle-on-Tyne

Shore Instrument & Mfg. Co. New York  
 Williams J. H., & Co. 91, Richard St., Brooklyn,  
 New York, U.S.A.

**Mill Gearing.—(See Wheels—Geared; also Shafting and Shaft Fittings.)****Mill Machinery (Flour, Corn and Rice).**

Blackstone & Co., Ltd. Rutland Wks., Stamford  
 Marshall, Sons & Co., Ltd. Gainsborough  
 Ransomes, Sims & Jefferies, Ltd. Ipswich  
 Robinson T., & Son, Ltd. Rochdale  
 Ruston, Proctor & Co., Ltd. Sheaf Ironworks, Lincoln

**Milling Cutters and Cutter Blanks.**

Chatwin Thomas, Ltd. Great Tindal St., Bir-  
 mingham  
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
 Leeds Tool & Mfg. Co., Ltd. 127, Elland Rd., Leeds  
 Muir Wm., & Co., Ltd. Sherbourne St., M'chester  
 Parc, Ltd. Clarence Wks., Lock-  
 hurst Lane, Coventry  
 Walker George, & Sons (Birmingham), Ltd. Whittall St., Birmingham

**Mills (Paint, Oil, Mortar, &c.).**

Blackstone & Co., Ltd. Rutland Works, Stamford  
 Pratchitt Brothers, Ltd. Denton Ironwks., Carlisle  
 Smedley Bros., Ltd. Belper, Derbyshire

**Mining Machinery.—(See also Colliery Plant.)**

Allen Edgar, & Co., Ltd. Sheffield  
 Allen W. H., Son & Co., Ltd. Bedford  
 American Steel Export Co. Woolworth Bdg., New York, U.S.A.

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Barclay Andrew Sons & Co., Ltd. Caledonia Wks., Kilmar-  
 nock, Scotland  
 Clay Cross Co., Ltd. Clay Cross, near Chester-  
 field Derby

Coles H. J., Ltd. London Crane Works,  
 Consolidated Pneumatic Tool Co., Ltd. Palace Chambers, 9,  
 Bridge St., Westmin-  
 ster, S.W.

Davey, Paxman & Co., Ltd. Colchester  
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
 Fletcher George, & Co., Ltd. Litchurch, Derby  
 Fowler J., & Co. (Leeds), Ltd. Leeds

Hadfield Limited. Hecla Works, Sheffield  
 Hathorn, Davey & Co., Ltd. Leeds [aby-on-Tees  
 Head, Wrightson & Co., Ltd. Teesdale Ironwks., Thorn-  
 Heenan & Froude, Ltd. Worcester

Hornsby R., & Sons, Ltd. Grantham  
 Johnson Wm., & Sons Castleton Foundry,  
 (Leeds), Ltd. Armley, Leeds

Marsden H. R., Ltd. Soho Foundry, Leeds  
 Marshall, Sons & Co., Ltd. Gainsborough  
 Pulsometer Eng. Co., Ltd. Nine Elms Ironworks,  
 Ransomes, Sims & Jefferies, Ltd. [Reading

Robey & Co., Ltd. Ipswich  
 Ruston, Proctor & Co., Ltd. Lincoln  
 Sandycroft, Ltd. Lincoln  
 Standard Engineering Co., Ltd. Chester

Tanges Limited Leicester  
 Walker Bros. (Wigan), Ltd. Birmingham  
 Wigan  
 Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

Worthington Pump Co., Ltd. Queen's House, Kings-  
 way, W.C.

**Model Makers.**

Rosser & Russell, Ltd. .. Queen's Wharf, Hammer-smith

**Motor Boats.—(See also Launches & Yachts.)**

Thornycroft J.L. & Co., Ltd. .. Caxton House, Westminster, S.W.  
 Vosper & Co., Ltd. .. Portsmouth  
 White J. Samuel, & Co., Ltd. .. East Cowes, Isle of Wight  
 Wolsley Motors, Ltd. .. York St., Westminster, S.W.

**Motor Cars.—(See Motor Vehicles.)****Motor Starters and Accessories.**

Booth Joseph, & Bros., Ltd. .. Rodley, Leeds  
 British Thomson-Houston Co., Ltd. .. Rugby  
 British Westinghouse Electric & Manufacturing Co., Ltd. .. Trafford Pk., Manchester  
 Electric & Ordnance Accessories Co., Ltd. .. Aston, Birmingham  
 Electric Control, Ltd. .. Bridgeton, Glasgow  
 Electromotors, Ltd. .. Openshaw, Manchester  
 Ellison George .. .. Wellhead Lane Wks., Perry Bar, Birmingham

Holmes J. H., & Co. .. Newcastle-upon-Tyne  
 Igranic Electric Co., Ltd. .. 147, Queen Victoria St., Sandycroft Limited .. Chester [E.C.]

**Motor Vehicles.**

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Austin Motor Co., Ltd. .. 479-483, Oxford St., W. Bristol  
 Avonside Engine Co., Ltd. .. High Wycombe  
 Broom & Wade, Ltd. .. Luton.  
 Commercial Cars, Ltd. .. 2 & 3, Duke St., S.W. 1  
 Edison Accumulators, Ltd. .. 10, St. Swinith's Lane, E.C.  
 Hall J. & E., Ltd. ..  
 Maudslay Motor Co., Ltd. .. Parkside, Coventry  
 Robey & Co., Ltd. .. Lincoln  
 Stewart Duncan, & Co., Ltd. .. Glasgow  
 Thornycroft J.L. & Co., Ltd. .. Caxton House, S.W.  
 Wolsley Motors, Ltd. .. York St., S.W.

**Motors.—(See Electric Motors.)****Moulding Machines.**

Adaptable Moulding Machine Co. .. Stanhope St., Birmingham

**Nail (Wire, &c.), Making Machinery.**

Shuster F. B., & Co. .. Newhaven, Conn., U.S.A.  
 Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.

**Name Plates.**

Butler-Jones (Nameplates), Ltd. .. Dartmouth Wks., Forest Hill, S.E. 23  
 United Metal Engraving Co., Ltd. .. 40, High Bridge, Newcastle-on-Tyne

**Non-Conducting Compositions.**

Bell's United Asbestos Co., Ltd. .. 591, Southwark St., S.E. 23, King St., E.C.  
 Cape Asbestos Co., Ltd. .. Dukinfield, Manchester  
 Kenyon Wm., & Sons, Ltd. .. 20, Gray St., B.  
 Leroy F., & Co. .. Soho Wks., Godley, near Salford [Manchester]  
 Sutcliffe Bros. .. ..  
 Tranter's W. J., Boiler Appliance Co. .. Tipton, Staffs

**Nut-Making Machines.**

Platt Samuel, Ltd. .. Wednesbury  
 Taylor & Challen, Ltd. .. Birmingham

**Office Fittings, Furniture and Appliances.**

Ash Rubber Stamp Co., Ltd. .. 192, Constitution Hill, Birmingham  
 Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester

**Oil Cans.**

Braime T. F., & Co., Ltd. .. Hunslet, Leeds  
 Kaye Jos., & Sons, Ltd. .. Lock Works, Leeds  
 Valor Company, Ltd. .. Aston Cross, Birmingham

**Oil Extractors.**

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Churchill C., & Co., Ltd. .. 9-15, Leonard St., E.C.  
 Paterson Engineering Co. .. 21, India House, Kingsway, W.C.

Premier Cooler & Engineering Co., Ltd. .. Broadway Court, Broadway, Westminster, S.W.  
 Princes & Co. .. .. Sheff  
 Royles Limited .. .. Irlam, nr. Manchester  
 Worthington Pump Co., Ltd. .. Queen's House, Kingsway, W.C.

**Oil Filters.**

Wells A. C., & Co. .. 102, Midland Rd., St. Pancras, N.W.  
 Kermodes Ltd. .. 35, The Temple, Dale St., Liverpool

**Oil Fuel.**

Anglo-Mexican Petroleum Products Company, Ltd. .. Finsbury Court, E.C.  
 Brotherton & Co., Ltd. .. City Chambers, Leeds  
 Kermodes Limited .. 35, The Temple, Dale St., Liverpool  
 Stainsby & Lyon, Ltd. .. Knottingley, Yorks

**Oil Mill and Refining Machinery.**

Coles H. J., Ltd. .. London Crane Wks., Derby  
 Manlove, Allott & Co., Ltd. .. Nottingham  
 Middleton Robert, & Co. .. Sheepshead Works, Leeds  
 Musgrave Brothers .. Crown Point Foundry, Leeds  
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull

**Oils.—(See Lubricants and Liquid Fuel.)****Organisation (Works).**

Kentrick & Jefferson, Ltd. .. Multigraph Wks., West Bromwich

**Ore Crushing Machinery.—(See also Disintegrators, and Stonebreakers.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Bradley Pulverizer Co. .. 37, Walbrook, E.C.  
 Davey, Paxman & Co., Ltd. .. Colchester  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hornsby R., & Sons, Ltd. .. Grantham  
 Marsden H. R., Ltd. .. Soho Foundry, Leeds  
 Robey & Co., Ltd. .. Lincoln  
 Sandycroft Limited .. Chester  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., B.C.

**Overalls for Engineers, &c.**

Foster G. .. .. Changegate, Keighley  
 Paisleys, Ltd. .. 82-96, Jamaica St., Glasgow  
 Taylor Albert A. .. 4, Midland St., Ardwick, Manchester

**Oxygen.—(See Gases, Oxygen, and Welding and Cutting Plant.)**

**Packing Cases and Packing Materials.**

Southern James W., & Son,  
Ltd. . . . . Store St., Manchester

**Packing (Engine and Hydraulic).—(See also Joining Materials, and Metallic Packing.)**

Beldam Packing & Rubber Co., Ltd. . . . . 1 & 2, Gracechurch St., E.C.  
Bell's United Asbestos Co., Ltd. . . . . 59, Southwark St., S.E. Colchester  
Davey, Paxman & Co., Ltd. . . . . 28, New Bridge St., E.C. Toronto, Canada  
Green & Boulding, Ltd. . . . . 95, Queen Victoria St., E.C.  
Gutta Percha & Rubber, Ltd. . . . . 113, Clerkenwell Rd., E.C.  
Jenkins Bros., Ltd. . . . . 38, Mair St., Glasgow  
Johnson W. F., & Co. . . . . Pendleton, Manchester  
Lindsay R. B., & Co. . . . .  
Lindsey F., & Co., Ltd. . . . .  
Reddaway F., & Co., Ltd. . . . .  
Rose, Downs & Thompson, Ltd. . . . .  
Thomas & Bishop . . . . .  
United States Metallic Packing Co., Ltd. . . . .  
Walker James, & Co., Ltd. . . . .  
Willcox W. H., & Co., Ltd. . . . .  
Woodite Works . . . . .

**Paint Mill.—(See Mills—Paint, Oil, Motor, &c.)****Paints, Varnishes, &c.**

Airostyle & Lithos, Ltd. . . . . 35, St. Bride St., E.C.  
Bell's United Asbestos Co., Ltd. . . . . 59, Southwark St., S.E.  
Bowran Robert, & Co., Ltd. . . . . 4, St. Nicholas Buildings, Newcastle-on-Tyne  
Dixon's White, Ltd. . . . . Albion Wharf, Bow, E.  
Ironite Co., Ltd. . . . . 11, Old Queen St., Westminster, S.W. 1  
Parsons Thos., & Sons . . . . . 315-317, Oxford St., W.

**Patent Agents.**

Alexander E. P., & Son . . . . . 306, High Holborn, W.C.  
Consulting Patent Agency . . . . . 253, Gray's Inn Rd., W.C.  
Jensen & Son . . . . . 77, Chancery Lane, W.C.  
Radford R. Heber, Son & Squire . . . . . 15, St. James Row, Sheffield  
Raworth John E. . . . . 70-71, Queen Anne's Chambers, Tothill St., S.W.

**Patent Law (Manufacturers under).**

Rosser & Russell, Ltd. . . . . Queen's Wharf, Hammer-smith

**Pencils.—(See Drawing Instrument.)****Perforated Metals.**

Harvey G. A., & Co. . . . . Greenwith Metal Works, (London), Ltd. . . . . Woolwich Rd., S.E.  
Hudson Thomas, Ltd. . . . . Sheppford Bridge, Coat-bridge

**Permanent Way.—(See also Rails—Steel & Iron, and Railway & Contractors' Plant.)**

Bagnall W. G., Ltd. . . . . Castle Eng. Wks., Stafford  
Birch John, & Co., Ltd. . . . . 2, London Wall Buildings, E.C.  
Bolling & Lowe . . . . . Laurence Pountney Hill, E.C.  
Dick, Kerr & Co., Ltd. . . . . Abchurch Yard, Cannon St., E.C.

**Petrol Storage.**

Baldwins Ltd. . . . . 3, St. Helens Place, E.C.  
Braby Fred., & Co., Ltd. . . . . Fitzroy Wks., 352-364, Euston Rd., N.W.1

**Petrol Storage.—Continued.**

Brown, Lenox Co. . . . . Poplar, E.  
(London), Ltd. . . . .

**Petrol and its Substitutes.**

Gas Lighting Improvement Co., Ltd. . . . . Salisbury House, London Wall, E.C.

**Photography and Materials, &c., and Appliances for Photographic Printing and Copying Processes.**

Halden J., & Co., Ltd. . . . . 8, Albert Sq., Manchester  
Hall B. J., & Co., Ltd. . . . . Chalfont Hse., Gt. Peter St., Westminster, S.W.  
Herbert Alfred, Ltd. . . . . Coventry  
Pease Company, C. F. . . . . 213-231, Institute Place, Chicago, Ill., U.S.A.

**Picks, Shovels and Spades.**

Hadfields Limited . . . . . Hecla Works, Sheffield

**Pile Drivers.**

Gibbins R. C., & Co. . . . . Berkley St., Birmingham  
Lidgerwood Mfg. Co. . . . . Caxton House, S.W.  
Whitakers (Engineers), Ltd. . . . . Horsforth, Leeds

**Piles, Sheet-Steel Piling and Pile Shoes.**

Le Grand & Sutcliffe . . . . . 125, Bunhill Row, E.C.  
Ransome-verMehrf Machin- 505, Brunswick House, ery Co., Ltd. . . . . Westminster, S.W.

**Pins (Taper).**

Mountford Fredk., Ltd. . . . . Fremo Works, Lifford, Birmingham

**Pipe Foundries.—(See also Tubes.)**

American Steel Export Co. . . . . Woolworth Bldg., New York, U.S.A.

Ashmore, Benson, Pease and Co., Ltd. . . . . Stockton-on-Tees [field  
Clay Cross Co., Ltd. . . . . Clay Cross, nr. Chester-  
Pulsometer Engineering Nine Elms Ironworks, Co., Ltd. . . . . Reading

**Pipe Screwing and Cutting Machinery.**

Curtis & Curtis Co. . . . . 77, Garden St., Bridge-  
port, Conn., U.S.A.

Heap Joshua, & Co., Ltd. . . . . Ashton-under-Lyne  
Platt Samuel, Ltd. . . . . Wednesbury  
Tangyes Limited . . . . . Birmingham

**Pipes (Large and Lap Welded).****Pipes (Wrought-Iron and Steel).—(See also Tubes—Iron and Steel.)**

Aiton & Co., Ltd. . . . . Derby  
American Steel Export Co. . . . . Woolworth Bldg., New York, U.S.A.

Ashmore, Benson, Pease and Co., Ltd. . . . . Stockton-on-Tees  
Bellamy John, Ltd. . . . . Millwall, E.  
Clayton, Son & Co., Ltd. . . . . Hunslet, Leeds  
Houston J. W., & Co. . . . . Partick Cross, Glasgow  
Howell & Co., Ltd. . . . . Brook Steel Works, Sheffield  
Mechans Limited . . . . . Scotstoun Ironworks, Glasgow  
Piggott Thos., & Co., Ltd. . . . . Springhill, Birmingham  
Russell James, & Sons, Ltd. . . . . Crown Tube Wks., Wed-  
Steel Pipe Company, Ltd. . . . . Kirkcaldy, N.B. [nesbury  
Stewarts & Lloyds, Ltd. . . . . 41, Oswald St., Glasgow;  
Broad St. Chambers, Birmingham

**Pistons and Piston Rings.**

|                                               |                            |
|-----------------------------------------------|----------------------------|
| British Chuck & Piston Ring Co., Ltd. . . . . | Holbrook Lane, Coventry    |
| Edmeston A. & Sons . . . . .                  | Patricroft, nr. Manch'ster |
| Lancaster & Tonge, Ltd. . . . .               | Pendleton, Manchester      |
| Lockwood & Carlisle, Ltd. . . . .             | Eagle Foundry, Sheffield   |
| McNeill C., Ltd. . . . .                      | Glasgow                    |

**Planing Machines.—(See Machine Tools.)****Plates (Dished and Flanged).**

|                                     |                  |
|-------------------------------------|------------------|
| Abbott & Co. (Newark), Ltd. . . . . | Newark-on-Trent  |
| Hudson Thomas, Ltd. . . . .         | Coatbridge, N.B. |
| James Thos., & Co. . . . .          | Liverpool        |

**Plates (Iron and Steel).**

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Beardmore Wm., & Co., Ltd. . . . .     | Glasgow                         |
| Colville David, & Sons, Ltd. . . . .   | Motherwell, nr. Glasgow         |
| Glasgow Iron & Steel Co., Ltd. . . . . | Wishaw                          |
| James Thos., & Co. . . . .             | Liverpool                       |
| Lanarkshire Steel Co., Ltd. . . . .    | Motherwell, N.B.                |
| Leeds Forge Co., Ltd. . . . .          | Leeds                           |
| Steel Co. of Scotland, Ltd. . . . .    | 23, Royal Exchange Sq., Glasgow |

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| Stewarts & Lloyds, Ltd. . . . .  | 41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham |
| Trentham Engineering Co. . . . . | Cornbrook, Manchester                                     |

**Plummer Blocks.—(See also Bearings.)**

|                                                     |                             |
|-----------------------------------------------------|-----------------------------|
| Coles H. J., Ltd. . . . .                           | London Crane Works, Derby   |
| Jardine John . . . . .                              | Deering St., Nottingham     |
| Platt Samuel, Ltd. . . . .                          | Wednesbury                  |
| Richards Geo., & Co., Ltd. . . . .                  | Broadheath, nr. M'chester   |
| Smith & Grace Screw Boss Pulley Co., Ltd. . . . .   | Thrapston                   |
| Taylor & Challen, Ltd. . . . .                      | Birmingham                  |
| Unbreakable Pulley & Mill Gearing Co., Ltd. . . . . | 48, West Gorton, Manchester |

**Pneumatic Tools.**

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| Consolidated Pneumatic Tool Co., Ltd. . . . . | Palace Ch'b'rs., 9, Bridge St., Westminster, S.W. |
| Gilman Frank . . . . .                        | 62, Lightwoods Hill, Birmingham                   |
| Globe Pneumatic Engineering Co., Ltd. . . . . | 1, Victoria St., Westminster, S.W.                |
| Ingersoll-Rand Co. . . . .                    | 105, Queen Victoria St. E.C.                      |
| Ross R. G., & Son, Ltd. . . . .               | Glasgow                                           |

**Poles, Posts and Standards.**

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Scottish Tube Co., Ltd. . . . . | 34, Robertson St., Glasgow                              |
| Stewarts & Lloyds, Ltd. . . . . | 41, Oswald St., Glasgow; Broad St. Chambers, Birmingham |

**Portable Engines.—(See Engines—Light and Portable.)****Portable Railways.—(See Railways—Light & Portable.)****Pottery and Encaustic Tile Machinery.—(See Brick & Tile-Making Machinery.)****Pressed Steel and Metal Work.**

|                                                       |                       |
|-------------------------------------------------------|-----------------------|
| Birmingham Railway Carriage & Wagon Co., Ltd. . . . . | Smethwick, Birmingham |
| Danks H. & T. (Netherton), Ltd. . . . .               | Netherton, Dudley     |

**Pressed Steel and Metal Work.—Continued.**

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Hogg-Carr Construction Co., Ltd. . . . . | Akenside House, New-castle-upon-Tyne          |
| Hurst, Nelson & Co., Ltd. . . . .        | Motherwell, N.B.                              |
| Leeds Forge Co., Ltd. . . . .            | Leeds                                         |
| London Aluminium Co., Ltd. . . . .       | Aston, Birmingham                             |
| Thompson Bros. (Bilston), Ltd. . . . .   | Bradley Engineering and Boiler Works, Bilston |
| Thompson John . . . . .                  | Wolverhampton                                 |

**Presses (Hydraulic).—(See Hydraulic Presses.)****Presses (Hand and Power).**

|                                         |                                  |
|-----------------------------------------|----------------------------------|
| Brett's Patent Lifter Co., Ltd. . . . . | Coventry                         |
| Fawcett, Preston & Co., Ltd. . . . .    | Liverpool                        |
| Glover W. T., & Co., Ltd. . . . .       | Trafford Pk., Manchester         |
| Hands John, & Sons, Ltd. . . . .        | Birmingham                       |
| Hollings & Guest, Ltd. . . . .          | Birmingham                       |
| Platt Samuel, Ltd. . . . .              | Wednesbury                       |
| Southwark Foundry & Machine Co. . . . . | Philadelphia, U.S.A.             |
| Stewart Duncan, & Co., Ltd. . . . .     | London Rd. Ironworks, Birmingham |
| Taylor & Challen, Ltd. . . . .          | Glasgow                          |

**Propellers.—(See Screw Propellers.)****Propellers (Air).—(See also Fans & Blowers, and Ventilators.)**

|                                                            |                               |
|------------------------------------------------------------|-------------------------------|
| Alkdays & Onions (Pneumatic Engineering) Co., Ltd. . . . . | Birmingham                    |
| Donkin Co., Ltd. (The Bryan) . . . . .                     | Chesterfield                  |
| Electric & Ordnance Accessories Co., Ltd. . . . .          | Aston, Birmingham             |
| Sturtevant Engineering Co., Ltd. . . . .                   | 147, Queen Victoria St., E.C. |

**Publishers.**

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Arnold Edward . . . . .              | 41 & 43, Maddox St., W.                  |
| Chapman & Hall, Ltd. . . . .         | 11, Henrietta St., W.C.                  |
| Constable A., & Co., Ltd. . . . .    | 10, Orange St., W.C.                     |
| "Engineering," Ltd. . . . .          | 35 & 36, Bedford St., W.C.               |
| Griffin Charles, & Co., Ltd. . . . . | Exeter St., Strand, W.C.                 |
| Kenrick & Jefferson . . . . .        | Multigraph Wks., West Bromwich           |
| Library Press, Ltd. . . . .          | 26, Portugal St., W.C. 2                 |
| Lockwood, Crosby & Son . . . . .     | 7, Stationers' Hall Ct., E.C.            |
| Longmans, Green & Co. . . . .        | 39, Paternoster Row, E.C.                |
| Scott, Greenwood & Son . . . . .     | 8, Broadway, Ludgate Hill, E.C. 4        |
| Spon E. & F. N., Ltd. . . . .        | 57, Haymarket, S.W.                      |
| Whittaker & Co. . . . .              | White Hart St., Paternoster Square, E.C. |

**Pulley Blocks.**

|                                       |                              |
|---------------------------------------|------------------------------|
| Bailey Sir W. H., & Co., Ltd. . . . . | Salford, Manchester          |
| Bullivant & Co., Ltd. . . . .         | 72, Mark Lane, E.C.          |
| Gibbins R. C., & Co. . . . .          | Berkley St., Birmingham      |
| Holt & Willelts . . . . .             | Cradley Heath                |
| Tangyes Limited . . . . .             | Birmingham                   |
| Vaughan Crane Co. . . . .             | Openshaw, Manchester         |
| Youngs . . . . .                      | Ryland St. Works, Birmingham |

**Pulleys (Cast Iron).**

|                                  |                         |
|----------------------------------|-------------------------|
| Bodley Brothers & Co. . . . .    | Exeter                  |
| Crofts (Engineers), Ltd. . . . . | Empire Works, Bradford  |
| Jardine John . . . . .           | Deering St., Nottingham |

**Pulleys (Cast Iron).—Continued.**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Platt Samuel, Ltd.                          | Wednesbury                  |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. M'chester   |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                   |
| Taylor & Challen, Ltd.                      | Birmingham                  |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester |
| Wigglesworth F. & Co., Ltd.                 | Shipley, near Bradford      |

**Pulleys (Wood).****Pulleys (Wrought Iron and Steel).**

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Barry Henry, & Co., Ltd.                    | Aberdeen                             |
| Crofts (Engineers), Ltd.                    | Empire Works, Bradford               |
| Crowther Henry, & Sons, Ltd.                | Cleckheaton, Yorkshire               |
| Douglas, Lawson & Co.                       | Birstall, near Leeds                 |
| Hudswell, Clarke & Co., Ltd.                | Railway Foundry, Leeds               |
| Jardine John                                | Deering St., Nottingham              |
| Platt Samuel, Ltd.                          | Wednesbury                           |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. M'chester            |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                            |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester          |
| Wigglesworth F. & Co., Ltd.                 | Clutch Works, Shipley, near Bradford |

**Pulverizers.—(See also Disintegrators.)**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Allen Edgar, & Co., Ltd.           | Sheffield                               |
| Bradley Pulverizer Co.             | 37, Wallbrook, B.C.                     |
| Patent Lightning Crusher Co., Ltd. | 144, Rosebery Av., Gray's Inn Rd., W.C. |

**Pumps (Air).—(See Air Pumps.)****Pumps (Centrifugal).**

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Allen W. H. Son, & Co., Ltd.       | Bedford                             |
| Bailey Sir W. H., & Co., Ltd.      | Salford, Manchester                 |
| British Electrical Plant Co., Ltd. | 78, St. Vincent St., Glasgow        |
| Brooke Tool Mfg. Co., Ltd.         | Belgrave Rd., Birmingham            |
| Campbell & Calderwood              | Soho Works, Paisley, Scotland       |
| Drysdale & Co., Ltd.               | Bon Accord Wks., Yoker, Glasgow, W. |
| Entwistle & Gass, Ltd.             | Bolton                              |
| Escher, Wyss & Co.                 | 109, Victoria St., S.W.             |
| Gunther W., & Sons                 | Central Works, Oldham               |
| Gwynnes, Ltd.                      | Hammersmith Ironwks., W.            |
| Hathorn, Davey & Co., Ltd.         | Leeds                               |
| Lobnitz & Co., Ltd.                | Renfrew                             |
| Paul Matthew, & Co., Ltd.          | Levenford Works, Dumbarton          |

|                                      |                               |
|--------------------------------------|-------------------------------|
| Pulsmeter Engineering Co., Ltd.      | Nine Elms Ironworks, Reading  |
| Rees Roturbo Manufacturing Co., Ltd. | Wolverhampton, Eng.           |
| Ruston, Proctor & Co., Ltd.          | Sheaf Ironwks., Lincoln       |
| Simons W., & Co., Ltd.               | Renfrew, N.B.                 |
| Sulzer Brothers                      | 30, Norfolk St., W.C.         |
| Tangyes Limited                      | Birmingham                    |
| Worthington Pump Co., Ltd.           | Queen's House, Kingsway, W.C. |

**Pumps (Colonial).**

|                                            |                                     |
|--------------------------------------------|-------------------------------------|
| Bailey Sir W. H., & Co., Ltd.              | Salford, Manchester                 |
| Caird & Rayner                             | 777, Commercial Rd., (Limehouse, E. |
| Evans Joseph, & Sons (Wolverhampton), Ltd. | Wolverhampton                       |

**Pumps (Colonial).—Continued.**

|                                 |                               |
|---------------------------------|-------------------------------|
| Fraser Douglas, & Sons, Ltd.    | Arbroath, Scotland            |
| Pulsmeter Engineering Co., Ltd. | Nine Elms Ironwks., Reading   |
| Weir G. & J., Ltd.              | Cathcart, Glasgow             |
| Worthington Pump Co., Ltd.      | Queen's House, Kingsway, W.C. |

**Pumps (Donkey).**

|                                            |                                     |
|--------------------------------------------|-------------------------------------|
| Bailey Sir W. H., & Co., Ltd.              | Salford, Manchester                 |
| Caird & Rayner                             | 777, Commercial Rd., E. Salford     |
| Carruthers J. H., & Co., Ltd.              | Polmadie Ironwks., Glasgow          |
| Clarke, Chapman & Co., Ltd.                | Gateshead-on-Tyne                   |
| Evans Joseph, & Sons (Wolverhampton), Ltd. | Wolverhampton                       |
| Friendthals, Ltd.                          | Peterborough                        |
| Hall J. P., & Sons                         | Leeds                               |
| Hathorn, Davey & Co., Ltd.                 | Colchester                          |
| Mumford A. G., Ltd.                        | Springhill, Birmingham              |
| Piggott Thos., & Co., Ltd.                 | Nine Elms Ironwks., Reading         |
| Pulsmeter Engineering Co., Ltd.            | Lincoln                             |
| Robey & Co., Ltd.                          | 101, Grosvenor Rd., S.W. Birmingham |
| Simpson James, & Co., Ltd.                 | 9, Ouseburn, Newcastle-on-Tyne      |
| Tangyes Limited                            | Cathcart, Glasgow                   |
| Toward T., & Co., Ltd.                     | Queen's House, Kingsway, W.C.       |
| Weir G. & J., Ltd.                         |                                     |
| Worthington Pump Co., Ltd.                 |                                     |

**Pumps and Pumping Machinery.**

|                                             |                                                          |
|---------------------------------------------|----------------------------------------------------------|
| Allen W. H. Son, & Co., Ltd.                | Bedford                                                  |
| Bailey Sir W. H., & Co., Ltd.               | Salford, Manchester                                      |
| Barclay Andrew, Sons & Co., Ltd.            | Caledonia Wks., Kilmarnock, Scotland                     |
| Berry Henry, & Co., Ltd.                    | Croydon Works, Leeds                                     |
| Bever, Doring & Co., Ltd.                   | Bradford                                                 |
| Brooke Tool Manufacturing Co., Ltd.         | Belgrave Rd., Birmingham                                 |
| Brotherhood Peter, Ltd.                     | 53, Parliament St., S.W.                                 |
| Caird & Rayner                              | 777, Commercial Rd., E. Oldfield Rd. Ironwks., [Salford] |
| Cameron John, Ltd.                          | Halifax, England                                         |
| Campbell Gas Engine Co., Ltd.               | Polmadie Ironwks., Glasgow                               |
| Carruthers J. H., & Co., Ltd.               | Govan, Glasgow                                           |
| Chaplin Alex., & Co.                        | Gateshead-on-Tyne                                        |
| Clarke, Chapman & Co., Ltd.                 | Colchester                                               |
| Davy Brothers, Ltd.                         | Sheffield                                                |
| Dawson & Downie, Ltd.                       | Elgin Works, Clydebank                                   |
| Drum Engineering Co.                        | 33, Brook St., Bradford                                  |
| Drysdale & Co., Ltd.                        | Bon Accord Wks., Yoker, [Glasgow, W.]                    |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                                             |
| Ellison W. T., & Co., Ltd.                  | Irlams - o' - th' - Height, Manchester                   |
| Escher, Wyss & Co.                          | 109, Victoria St., S.W.                                  |
| Evans Joseph, & Sons (Wolverhampton), Ltd.  | Wolverhampton                                            |
| Fawcett, Preston & Co., Ltd.                | Liverpool                                                |
| Fleming & Ferguson, Ltd.                    | Paisley, N.B.                                            |
| Friendthals, Ltd.                           | River Engine Wks, Preston                                |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley                 |
| Glenfield & Kennedy, Ltd.                   | Kilmarnock, N.B.                                         |
| Glover & Hobson, Ltd.                       | Abbot Works, Chelmsford                                  |
| Gwynnes, Ltd.                               | Hammersmith Ironwks., W.                                 |
| Hall J. P., & Sons, Ltd.                    | Peterborough                                             |

**Pumps and Pumping Machinery.—Continued.**

Hathorn, Davey & Co., Ltd. Leeds  
 Hayward, Tyler & Co., Ltd. 99, Queen Victoria St., E.C.  
 Hornsby R., & Sons, Ltd. Grantham  
 Hughes & Lancaster 47, Victoria St., S.W.  
 Humphrey Pump Co., Ltd. 38, Victoria St., S.W.  
 Kirkaldy John, Ltd. 101, Leadenhall St., E.C.3  
 Lancaster & Tonge, Ltd. Pendleton, nr. M'chester  
 Le Grand & Sutcliffe 125, Bunhill Row, E.C.  
 Lees T. & R. Hollinwood, nr. Man-  
 chester

Lister R. A., & Co., Ltd. Dursley  
 Lunken Co., Ltd. 35, Great Dover St., S.E.  
 Manlove, Allott & Co., Ltd. Nottingham  
 Mason Regulator Co. Boston, Mass., U.S.A.  
 Mather & Platt, Ltd. Park Works, Manchester  
 Merryweather & Sons, Ltd. 63, Long Acre, W.C.  
 Mumford A. G., Ltd. Colchester  
 Musgrave Bros. Leeds  
 Nichols Pump & Engineer- Oakwellgate, Gateshead-  
 ing Co., Ltd. on-Tyne  
 Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
 Paul Matthew, & Co., Ltd. Levenford Wks., Dumbar-  
 ton

Pearn Frank, & Co., Ltd. Manchester  
 Piggott Thos., & Co., Ltd. Springfield, Birmingham  
 Pratchitt Bros. Denton Ironwks., Carlisle  
 Pulsometer Eng. Co., Ltd. Nine Elms Ironworks,  
 Reading

Pumps Limited 81, Spencer St., Birm'g'm  
 Ransomes & Rapier, Ltd. Ipswich  
 Ransomes, Sims & Jefferies, Ltd. Ipswich

Rees Roturbo Manufac- Wolverhampton, Eng.  
 turing Company, Ltd. Elland Rd., Leeds  
 Rice & Co. (Leeds), Ltd. Lincoln  
 Robey & Co., Ltd. Sheaf Ironworks, Lincoln  
 Ruston, Procter & Co., Ltd. Chester  
 Sandycroft Limited 101, Grosvenor Rd.,  
 Simpson James, & Co., Ltd. S.W.

Stothert & Pitt, Ltd. Bath  
 Stott S. S., & Co. Haslingden, nr. M'chester  
 Sulzer Brothers 30, Norfolk St., W.C.  
 Tangyes Limited Birmingham  
 Thornycroft J. L., & Co., Ltd. Caxton House, Westmina-  
 ster, S.W.

Toward T., & Co., Ltd. 9, Ouseburn, Newcastle-  
 on-Tyne

Turnbull Alex. & Co., Ltd. Bishopbriggs, Glasgow  
 Weir G. & J., Ltd. Cathcart, Glasgow  
 Westinghouse Brake Co., York Rd., King's Cross,  
 N.  
 Willcox W. H., & Co., Ltd. 32 to 38, Southwark St.,  
 S.E.

Worthington Pump Co., Queen's House, Kings-  
 way, W.C.

**Pumps (Turbine).**

Allen W. H., Son & Co., Ltd. Bedford  
 Boving & Co., Ltd. Imperial Buildings,  
 Kingsway, W.C.  
 British Electric Plant Co., Ltd. 78, St. Vincent St.,  
 Glasgow  
 British Westinghouse Elec-  
 tric & Mfg. Co., Ltd. Trafford Pk., Manchester  
 Drysdale & Co., Ltd. Bon-Accord Wks., Yoker,  
 Glasgow, W.  
 Mather & Platt, Ltd. Park Works, Manchester  
 Pulsometer Engineering Nine Elms Ironworks,  
 Co., Ltd. Reading

**Pumps (Turbine).—Continued.**

Pumps Limited 81, Spencer St., Birm'g'm  
 Rees Roturbo Manufac-  
 turing Company, Ltd. Wolverhampton, Eng.

**Pumps (Vacuum).**

Blair, Campbell & McLean, Woodville St., Govan,  
 Ltd. Glasgow  
 Broom & Wade, Ltd. High Wycombe  
 Evans Joseph, & Sons (Wol-  
 verhampton), Ltd. Wolverhampton  
 Mirrieles Watson Co., Ltd. Scotland St., Glasgow  
 Reavell & Co., Ltd. Ipswich  
 Siebe, Gorman & Co., Ltd. Neptune Works, S.E.

**Punching and Shearing Machines.**

Berry F., & Sons Calderdale Ironworks,  
 Sowerby Bridge  
 Berry Henry, & Co., Ltd. Croydon Works, Leeds  
 Cameron John, Ltd. Oldfield Rd. Ironworks,  
 Salford  
 Covington Machine Co. Covington. Virginia,  
 U.S.A.

Craig & Donald, Ltd. Johnstone, nr. Glasgow  
 Davy Brothers, Ltd. Sheffield  
 Hands John, & Sons, Ltd. Cardigan Wks., Birming-  
 ham

Musgrave Bros. Crown Point Foundry,  
 Pollock, Macnab & High-  
 gate Leeds

Rice & Co. (Leeds), Ltd. Sheffleton, Glasgow  
 Scott Bros. Elland Rd., Leeds  
 Smith Hugh, & Co., Ltd. West Mount, Halifax  
 Southark Foundry & Possil Works, Glasgow

Machine Co. Philadelphia, U.S.A.  
 Tangyes Limited Birmingham  
 Walber W. A., & Co. 38, Victoria St., S.W.

**Pyrometers and Thermometers.**

Cambridge Scientific Instru-  
 ment Co., Ltd. Cambridge  
 Engineering Supplies, Ltd. 28, Victoria St., S.W.  
 Foster Instrument Co. Letchworth, Herts  
 Horne Engineering Co. St. Peters Lane, Glasgow  
 Incandescent Heat Co., Ltd. British Mills, Smethwick,  
 Birmingham

Negretti & Zambra 38, Holborn Viaduct, E.C.

Shore Instrument & Mfg.  
 Co. New York  
 Sugden T., Ltd. 180, Fleet St., E.C.

**Rail Benders.**

Berry Henry, & Co., Ltd. Hunslet, Leeds  
 Gibbins R. C., & Co. Berkeley St., Birmingham  
 Holt & Willets Cradley Heath  
 Tangyes Limited Birmingham [irmingham  
 Youngs Ryland St. Works, Bir-

**Rail Lifters.**

Gibbins R. C., & Co. Berkeley St., Birmingham  
 Youngs Ryland St. Works, Bir-  
 mingham

**Rails (Steel and Iron).—(See also Permanent Way, and Switches & Crossings.)**

Bolling & Lowe 2, Laurence Pountney  
 Cammell Laird & Co., Ltd. Sheffield [Hill, E.C.  
 Colville David, & Sons, Ltd. Motherwell, nr. Glasgow  
 Kerr, Stuart & Co., Ltd. 5, Broad St. Place, E.C.  
 Steel Co. of Scotland, Ltd. 23, Royal Exchange  
 Square, Glasgow  
 White Rd., & Sons Widnes, Lancs

**Railway and Contractors' Plant.**

Alley & MacLellan, Ltd. . . . Sentinel Works, Glasgow  
 American Steel Export Co. . . . Woolworth Bldg., New York, U.S.A.  
 Bagnall W. G., Ltd. . . . Castle Engine Works, Beyer, Peacock & Co., Ltd. . . . Manchester (Stafford)  
 Birch John, & Co., Ltd. . . . 2, London Wall Bldg., E.C.  
 Bolling & Lowe . . . 2, Laurence Pountney Hill, E.C.  
 Brown John & Co., Ltd. . . . Sheffield  
 Bucyrus Co. . . . 13, Victoria St., S.W.  
 Dick, Kerr & Co., Ltd. . . . Abchurch Yard, E.C.  
 Firth Thos., & Sons, Ltd. . . . Norfolk Works, Sheffield  
 Fowler J., & Co. (Leeds), Ltd. . . . Leeds  
 Gibbins R. C., & Co. . . . Berkley St., Birmingham  
 Hadfields Limited . . . Hecla Works, Sheffield  
 Heenan & Froude, Ltd. . . . Worcester  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 Leeds Forge Co., Ltd. . . . Leeds  
 Lidgerwood Mfg. Co. . . . Caxton House, S.W.  
 MacLellan P. & W., Ltd. . . . Clutha Works, Glasgow  
 Rubery, Owen & Co. . . . Darlaston, S. Staffs.  
 Stone J. B., & Co., Ltd. . . . 125, Finsbury Pavement, [E.C.  
 Summerson Thomas, & Sons, Ltd. . . . Darlington  
 Western Wheeled Scraper Co. . . . Aurora, Illinois, U.S.A.  
 Wotham, Bates & Goode (Inc.) . . . 17, Battery Place, New York City, U.S.A.

**Railway Rolling Stock.—(See Carriage, Wagon and Engine—Locomotives.)****Railway Signals.**

McKenzie & Holland, Ltd. . . . 58, Victoria St., S.W.  
 McKenzie, Holland & Westinghouse Power Signal Co., Ltd. . . . 58, Victoria St., S.W.

**Railway Wheels.—(See Wheels—Railway.)****Railways (Light and Portable).**

Bagnall W. G., Ltd. . . . Stafford [E.C.  
 Birch John, & Co., Ltd. . . . 2, London Wall Buildings, Bolling & Lowe . . . 2, Laurence Pountney Hill, E.C.  
 Dick, Kerr & Co., Ltd. . . . Abchurch Yard, Cannon Leeds [St., E.C.  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 Kerr, Stuart & Co., Ltd. . . . 5, Broad St. Place, E.C.

**Railways (Track).**

Cammell, Laird & Co., Ltd. . . . Sheffield

**Rawhide Wheels.—(See Wheels—Rawhide.)****Reducing Valves.—(See Valves—Reducing.)****Refractory Materials.****Refrigerating Machinery.—(See also Ice-Making Machines.)**

Hall J. & E., Ltd. . . . Dartford Ironworks, Kent  
 Haslam Foundry & Engineering Co., Ltd. . . . Union Foundry, Derby  
 Liverpool Refrigeration Co., Ltd. . . . Colonial House, Liverpool  
 Mirrlees Watson Co., Ltd. . . . Scotland St., Glasgow  
 Pontfex & Wood, Ltd. . . . Union Foundry, Derby  
 Pulsometer Engineering Co., Ltd. . . . Nine Elms Ironworks, Reading  
 Sengers Ltd. . . . Dartford  
 Sterne L. & Co., Ltd. . . . Crown Ironworks, Glasgow

**Reversing Gears (Motor Boat).**

Thornycroft J. L., & Co., Ltd. . . . Caxton House, Westminster, S.W.

**Rice-Dressing Machinery.**

Douglas & Grant . . . Kirkcaldy, N.B.

**Rivetting Machines.**

Arrol Sir William, & Co., Ltd. . . . Dalmarnock Ironworks, Bridgeton, Glasgow  
 Berry Henry, & Co., Ltd. . . . Croydon Works, Leeds  
 Drysdale & Co., Ltd. . . . Bon Accord Wks., Yorker, Glasgow, W.  
 Flower J. W., & Co. . . . Eclipse Wks., Wimborne, Dorset

Globe Pneumatic Engineering Co., Ltd. . . . 1, Victoria St., Westminster, S.W.

Musgrave Bros. . . . Leeds  
 Rice & Co. (Leeds), Ltd. . . . Elland Rd., Leeds  
 Selson Engineering Co., Ltd. . . . 85, Qn. Victoria St., E.C.  
 Shuster F. B. Co. . . . Newhaven, Conn., U.S.A.  
 Smith Hugh, & Co., Ltd. . . . Possil Works, Glasgow  
 Southwark Foundry & Machine Co. . . . Philadelphia, U.S.A.

**Rivets.—(See Bolts, Rivets, &c.)****Road Rollers (Steam, &c.).**

Aveling & Porter, Ltd. . . . Rochester  
 Fowler J., & Co. (Leeds), Ltd. . . . Leeds  
 Marshall, Sons & Co., Ltd. . . . Gainsborough  
 Ruston, Proctor & Co., Ltd. . . . Sheaf Ironworks, Lincoln

**Rockbreaker (Mechanical, under Water).**

Lobnitz & Co., Ltd. . . . Renfrew, Scotland

**Rock Drills.—(See also Boring Tools & Machinery, and Well Engineers.)**

Consolidated Pneumatic Tool Co., Ltd. . . . 9, Bridge St., Westminster, S.W.  
 Ingersoll-Rand Co. . . . 165, Queen Victoria St., E.C.

**Roller Bearings.—(See Bearings—Ball & Roller.)****Rolling Mill Machinery.—(See Iron and Steel Works, Plant for.)****Rolling Mills (for Metals).—(See Iron and Steel Works, Plant for.)****Rolls (Chilled and Grain).**

Bayliss, Jones & Bayliss, Ltd. . . . Wolverhampton

**Rolls (Iron, Steel and Zinc).—(See Structural Engineering.)****Rope Tramways.**

Bullivant & Co., Ltd. . . . 72, Mark Lane, E.C.  
 Lidgerwood Mfg. Co. . . . Friars House, New Broad St., E.C.  
 White Rd., & Sons . . . Widnes, Lancs.

**Ropes (Driving).**

Hart Thomas . . . Blackburn, England  
 Kenyon Wm., & Sons, Ltd. . . . Dukinfield, Manchester

**Ropes (Wire).—(See Wire & Wire Rope Makers.)****Rubber Machinery.**

Entwistle & Gass, Ltd. . . . Bolton



**Runways.**

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Higginbottom & Mannock, Ltd.     | Crown Ironworks, West Gorton, Manchester |
| Holt & Willetts                  | Lion Wks., Cradley Heath                 |
| Rownson, Drew & Clydesdale, Ltd. | Upper Thames St., E.C. Bristol           |
| Strachan & Henshaw, Ltd.         | Openshaw, Manchester                     |
| Vaughan Crane Co., Ltd.          | 161, Victoria St., Westminster, S.W.1    |
| Young & Co. (Westminster), Ltd.  |                                          |

**Rust Preventive.**

|                   |                         |
|-------------------|-------------------------|
| Canning W., & Co. | Lustre Wks., Birmingham |
|-------------------|-------------------------|

**Sales.****Sand Blast Machines.**

|                                        |                             |
|----------------------------------------|-----------------------------|
| Tilghman's Patent Sand Blast Co., Ltd. | Broadheath, near Manchester |
|----------------------------------------|-----------------------------|

**Sand (Moulding).**

|                          |                   |
|--------------------------|-------------------|
| Mansfield Sand Co., Ltd. | Mansfield, Notts. |
|--------------------------|-------------------|

**Sanitary Appliances.**

|                           |                        |
|---------------------------|------------------------|
| Glenfield & Kennedy, Ltd. | Kilmarnock, N.B.       |
| Hughes & Lancaster        | 47, Victoria St., S.W. |

**Saw Makers.**

|                             |                          |
|-----------------------------|--------------------------|
| Allen Edgar, & Co., Ltd.    | Sheffield                |
| Beardshaw J., & Son, Ltd.   | Sheffield                |
| Chambers, Scott & Co., Ltd. | Motherwell               |
| Davy Brothers, Ltd.         | Sheffield                |
| Firth Thos., & Sons, Ltd.   | Norfolk Works, Sheffield |
| Pickles John, & Son         | Herben Bridge, Yorks     |

**Saw Mill Machinery.—(See Wood-Working Machinery.)****Scientific Instruments.—(See Boiler Mountings, Drawing Instruments, and Pyrometers & Thermometers.)****Screens.**

|                              |                             |
|------------------------------|-----------------------------|
| Goodall, Clayton & Co., Ltd. | Hunslet (Pepper Rd.), Leeds |
|------------------------------|-----------------------------|

**Screw Propellers and Propeller Blades.**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Billington & Newton, Ltd.                  | Longport, Stoke-on-Trent               |
| Brown John, & Co., Ltd.                    | Sheffield                              |
| Firth Thos., & Sons, Ltd.                  | Norfolk Works, Sheffield               |
| Friedenthals, Ltd.                         | River Eng. Wks., Preston               |
| Hadfields Limited.                         | Hecla Works, Sheffield                 |
| North-Eastern Marine Engineering Co., Ltd. | Northumberland Works, Wallsend-on-Tyne |
| Ross & Duncan                              | Glasgow                                |
| Steven & Struthers                         | Kelvinhaugh, Glasgow                   |
| Thornycroft J. I., & Co., Ltd.             | Southampton                            |
| Vickers Limited                            | Sheffield                              |

**Screwing Machines.**

|                                 |                                              |
|---------------------------------|----------------------------------------------|
| Armstrong Mfg. Co.              | 338, Knowlton St., Bridgeport, Conn., U.S.A. |
| Chatwin Thos., Ltd.             | Gt. Tindal St., Birmingham                   |
| Daniell S. A., Ltd.             | Edward St., Parade, Birmingham               |
| Heap Joshua, & Co., Ltd.        | Ashton-under-Lyne                            |
| Imperial Motor Industries, Ltd. | 11, Denmark St., W.C.                        |
| Leeds Tool & Mfg. Co., Ltd.     | 121, Elland Rd., Leeds                       |
| Niles-Bement Pond Co.           | Hamilton, Ohio, U.S.A.                       |

**Screwing Machines.—Continued.**

|                         |                             |
|-------------------------|-----------------------------|
| Oster Manufacturing Co. | Cleveland, Ohio, U.S.A.     |
| Platt Samuel, Ltd.      | Wednesbury                  |
| Shanks Thomas, & Co.    | Johnstone                   |
| Tangyes Limited         | Birmingham                  |
| Winn Charles, & Co.     | Granville Place, Birmingham |

**Search Lights.**

|                                     |                                 |
|-------------------------------------|---------------------------------|
| British Thomson-Houston Co., Ltd.   | Rugby                           |
| Clarke, Chapman & Co., Ltd.         | Gateshead-on-Tyne               |
| Siemens Brothers Dynamo Works, Ltd. | Caxton House, Westminster, S.W. |

**Second-hand Tools, &c.**

|                           |                                       |
|---------------------------|---------------------------------------|
| Hurst, Nelson & Co., Ltd. | Motherwell, N.B.                      |
| Judson-Jackson Co., Ltd.  | 50, Marsham Street, Westminster, S.W. |
| McNab John                | Mary St., Hyde                        |
| Wake John F.              | Darlington                            |
| Ward Thos., W., Ltd.      | Albion Works, Sheffield               |
| Welborne & Co.            | Southerly Bldg., New York, U.S.A.     |

**Separators, Magnets, &c.**

|                                       |                                                   |
|---------------------------------------|---------------------------------------------------|
| Consolidated Pneumatic Tool Co., Ltd. | Palace Ch'mb's., 9, Bridge St., Westminster, S.W. |
| Igranic Electric Co., Ltd.            | 147, Qn. Victoria St., E.C.                       |
| Rapid Magnetising Machine Co., Ltd.   | 18, The Crescent, Birmingham                      |
| Westminster Tool & Electric Co.       | Suffolk House, Laurence Pountney Hill, E.C.       |

**Shafting and Shaft Fittings.—(See also Clutches—Friction, Couplings—Shaft, and Plummer Blocks & Bearings.)**

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| Barry, Henry & Co., Ltd.                  | Aberdeen                             |
| Beardmore W., & Co., Ltd.                 | Glasgow                              |
| Bessemer Henry, & Co., Ltd.               | Sheffield                            |
| Bodley Bros. & Co.                        | Old Quay Foundry, Exeter             |
| Brown John, & Co., Ltd.                   | Sheffield                            |
| Columbia Steel & Engineering Co., Ltd.    | Regent House, Kingsway, W.C.         |
| Craven Brothers (Manchester), Ltd.        | Vauxhall Wks., Reddish, Stockport    |
| Crofts (Engineers), Ltd.                  | Empire Works, Bradford               |
| Douglas, Lawson & Co.                     | Birstall, near Leeds                 |
| Dunford & Elliott (Sheffield), Ltd.       | Attercliffe Wharf, Sheffield         |
| Electro-Mechanical Brake Co., Ltd.        | West Bromwich                        |
| Entwistle & Gass, Ltd.                    | Bolton                               |
| Escher, Wyss & Co.                        | 109, Victoria St., S.W.              |
| Fife Forge Co., Ltd.                      | Kirkcaldy, Scotland                  |
| Firth Thos., & Sons, Ltd.                 | Norfolk Works, Sheffield             |
| Hadfields Limited.                        | Hecla Works, Sheffield               |
| Hawthorn R. & W., Leslie & Co., Ltd.      | Newcastle-on-Tyne                    |
| Hudswell, Clarke & Co., Ltd.              | Leeds                                |
| Jardine John                              | Deering St., Nottingham              |
| Kirkstall Forge Co., Ltd.                 | Leeds                                |
| Platt Samuel, Ltd.                        | Wednesbury                           |
| Power Plant Co., Ltd.                     | West Drayton, Middlesex              |
| Richards Geo., & Co., Ltd.                | Broadheath, nr. Manchester           |
| Smith & Grace Screw Boss Pulley Co., Ltd. | Thrapston                            |
| Taylor & Challen, Ltd.                    | Birmingham                           |
| Trier Bros., Ltd.                         | 36, Victoria St., Westminster, S.W.1 |

**Shafting and Shaft Fittings.**—(See also *Clutches—Friction, Couplings—Shaft, and Plummer Blocks, & Bearings*).—*Continued.*

Standard Pressed Steel Co. Philadelphia, U.S.A.  
 Unbreakable Pulley & Mill } 48, West Gorton, Man-  
   Gearing Co., Ltd. } chester  
 Vickers Limited } Sheffield  
 Wigglesworth F. & Co., Ltd. Shipley, near Bradford  
 Yates & Thom, Ltd. Canal Works, Blackburn

**Shearing Machines.**—(See *Punching & Shearing Machines*.)

**Sherriffs.**

Day, Summers & Co., Ltd. Southampton

**Sheet Metal Work, and Machinery.**

Braime T. F., & Co., Ltd. Hunslet, Leeds  
 Standard Piston Ring and } Premier Wks., Don Rd.,  
   Engineering Co. } Sheffield  
 Taylor & Challen, Ltd. Birmingham

**Sheet-Metal Work (Welded).**

Ash Joseph, & Son Rea St. South, Birmingham

Thompson Bros. (Bilston), } Bradley Engineering and  
   Ltd. } Boiler Works, Bilston

**Shipbuilders.**—(See also *Barges & Lighters, Dredgers—Suction, Motor Boats, and Torpedo Boats*.)

Alisa Shipbuilding Co., Ltd. Troon, N.B.  
 Beardmore W., & Co., Ltd. Glasgow  
 Brown John, & Co., Ltd. Sheffield  
 Cammell Laird & Co., Ltd. Sheffield  
 Campbell & Calderwood, Ltd. Soho Works, Paisley,  
   Scotland

Day, Summers & Co., Ltd. Southampton  
 Dublin Dockyard Co., Ltd. North Wall, Dublin  
 Ferguson Brothers (Port } Newark Works, Port  
   Glasgow), Ltd. } Glasgow  
 Fleming & Ferguson, Ltd. Paisley, N.B.

Hawthorn R. & W., Leslie & Co., Ltd. Newcastle-on-Tyne  
 Hayes Edward Stony Stratford, Wolver-  
 Lobnitz & Co., Ltd. Renfrew, Scotland [ton  
 McKie & Baxter Govan, Glasgow  
 Normand Augustin 67, Rue du Perrey, Le  
   Havre, France

Ross & Duncan Glasgow  
 Simons W., & Co., Ltd. Renfrew, N.B.  
 Smilt L., & Zoon Kinderdijk, Holland  
 Sun Shipbuilding Co. 1428 So. Penn Sq., Phila-  
   delphia, Pa., U.S.A.

Thornycroft J.I., & Co., Ltd. Caxton House, S.W.  
 Vickers Limited Barrow-in-Furness  
 Wallsend Slipway & Engi-  
   neering Co., Ltd. Wallsend  
 White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight  
 Yarrow & Co., Ltd. Glasgow

**Shovels and Spades.**—(See *Picks, &c.*)

**Sirens and Whistles.**

France & Morgan Whitefield Brass Works,  
   Govan, Glasgow  
 Lunken Company, Ltd. 35, Great Dover St., E.C.

**Sites (Industrial).**

North Eastern Railway Co. The Commercial Agent,  
   York  
 Wolverhampton, Borough } Town Hall, Wolver-  
   of } hampton

**Sleepers (Railway).**—(See *Permanent Way*.)

**Slotting and Shaping Machines.**—(See *Machine Tools*.)

**Slukes.**

Ransomes & Rapier, Ltd. Ipswich

**Smiths' Fires.**

Alldays & Onions (Pneuma-  
   tic Engineering) Co., Ltd. Birmingham

**Smoke Helmets, &c.**

Siebe, Gorman & Co., Ltd. Neptune Wks., Westmin-  
   ster Bridge Rd., S.B.

**Solders.**

McKechie Brothers Rotton Park St., Bir-  
   mingham

**Solenoids (Brake).**

Ellison, George Wellhead Lane Wks.,  
   Perry Bar, Birming-  
   ham

**Speed Indicators and Counters.**

Bailey Sir W. H., & Co., Albion Wks., Salford,  
   Ltd. Manchester  
 Dobbie McInnes, Ltd. 57, Bothwell St., Glasgow

**Spring.**

American Steel Foundries 5, Laurence Pountney  
   Hill, E.C.

Brown John, & Co., Ltd. Sheffield  
 Cockburns Limited Clydesdale Wks., Card'n'd,  
   near Glasgow

Cottam Edwin & Co., Ltd. Cardiff and Rotherham  
 Smith Bros. & Hill, Ltd. Albert Spring Works,  
   West Bromwich

Sterne L., & Co., Ltd. Crown Ironwks., Glasgow  
 Terry Herbert, & Sons, Ltd. Redditch  
 Turton Thos., & Sons, Ltd. Sheaf Works, Sheffield

**Springs and Coils (Machinery for Making).**

Shuster F. B. Co. Newhaven, Conn., U.S.A.  
 Sleeper & Hartley (Inc.) Worcester, Mass., U.S.A.

**Stamping Machinery.**

Berry Henry, & Co., Ltd. Hunslet, Leeds  
 Hands John, & Sons, Ltd. Birmingham  
 Massey B. & S., Ltd. Manchester  
 Platt Samuel, Ltd. Wednesbury  
 Taylor & Challen, Ltd. Birmingham

**Stampings (Brass, Bronze, Copper, &c.).**

Brookes & Adams 250-252, Barr St., Hock-  
   ley, Birmingham  
 Cranes (Birmingham), Ltd. 183, Moseley St., Bir-  
   mingham  
 Delta Metal Co., Ltd. East Greenwich, S.B.

**Stampings (Iron and Steel).**

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| Armstrong, Stevens & Son, Ltd.            | Whittall St., Birmingham             |
| Braime T. F., & Co., Ltd.                 | Hunslet, Leeds                       |
| Cranes (Birmingham), Ltd.                 | 183, Moseley St., Birmingham         |
| Fowler John, & Co. (Leeds), Ltd.          | Leeds                                |
| Gartsherrie Engineering & Forge Co., Ltd. | 50, Wellington Street, Glasgow       |
| Head, Wrightson & Co., Ltd.               | Teesdale Ironworks, Thornaby-on-Tees |
| Heavy Stampings, Ltd.                     | Middlesbrough                        |
| Sankey Joseph, & Sons, Ltd.               | Hadley, Salop                        |
| Thompson Bros. (Bilston), Ltd.            | Bradley Eng. & Boiler Works, Bilston |

**Steam Cultivating Machines.**

|                                  |              |
|----------------------------------|--------------|
| Aveling & Porter, Ltd.           | Rochester    |
| Fowler John, & Co. (Leeds), Ltd. | Leeds        |
| Marshall, Sons & Co., Ltd.       | Gainsborough |

**Steam Hammers.—(See also Hammers—Power.)**

|                                 |                                               |
|---------------------------------|-----------------------------------------------|
| Brett's Patent Lifter Co., Ltd. | Coventry                                      |
| Davis & Primrose, Ltd.          | Leith, Edinburgh                              |
| Davy Brothers, Ltd.             | Sheffield                                     |
| Dempster, Moore & Co., Ltd.     | 49, Robertson St., Glasgow                    |
| Massey B. & S., Ltd.            | Openshaw, Manchester                          |
| Nasmith Wilson & Co., Ltd.      | Bridgewater F'dry, Patricroft, nr. Manchester |
| Pollock, Macnab & Highgate      | Sheffield, Glasgow                            |
| Ross R. G., & Son, Ltd.         | Glasgow                                       |

**Steam Pipes.—(See Pipes—Wrought Iron and Steel, and Tubes—Brass, Iron, &c.)****Steam Rollers.—(See Road Rollers.)****Steam Separators.**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Alley & Maclellan, Ltd.                    | Sentinel Works, Glasgow                |
| Hopkinson J., & Co., Ltd.                  | Huddersfield                           |
| North-Eastern Marine Engineering Co., Ltd. | Northumberland Works, Wallsend-on-Tyne |
| Princes & Co.                              | Sheffield                              |
| Worthington Pump Co., Ltd.                 | Queen's House, Kingsway, W.C.          |

**Steam Traps.**

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| Alley & Maclellan, Ltd.                | Sentinel Works, Glasgow                     |
| British Steam Specialties, Ltd.        | Bedford St., Leicester                      |
| Cockburns Limited                      | Cardonald, near Glasgow                     |
| Edmeston A., & Sons                    | Patricroft, nr. Manchester                  |
| Geipel Wm., & Co.                      | St. Thomas St., S.E.                        |
| Hobdell, Way & Co., Ltd.               | 124-5, Minorities, E. Huddersfield          |
| Hopkinson J., & Co., Ltd.              | 95, Queen Victoria St., Leeds               |
| Jenkins Bros., Ltd.                    | 94, Market St., Manchester                  |
| Klein Engineering Co. (1908), Ltd.     | Pendleton, Manchester                       |
| Lancaster & Tonge, Ltd.                | Broadway Court, Broadway, Westminster, S.W. |
| Premier Cooler & Engineering Co., Ltd. | Irlam, near Manchester                      |
| Royles Limited                         | Kelvinhaugh, Glasgow                        |
| Steven & Struthers                     | Bishopbriggs, Glasgow                       |
| Turnbull Alex., & Co., Ltd.            |                                             |

**Steam Turbines and Fittings.**

|                                                |                                          |
|------------------------------------------------|------------------------------------------|
| Allen W.H., Son, & Co., Ltd.                   | Bedford                                  |
| Belliss & Morcom, Ltd.                         | Birmingham                               |
| British Thomson-Houston Co., Ltd.              | Rugby                                    |
| British Westinghouse Electric & Mfg. Co., Ltd. | Trafford Pk., Manchester                 |
| Cockburns Limited                              | Cardonald, nr. Glasgow                   |
| Dick, Kerr & Co., Ltd.                         | Abchurch Yard, E.C.                      |
| Escher, Wyss & Co.                             | 100, Victoria St., S.W.                  |
| Fraser & Chalmers, Ltd.                        | Moorgate Hall, Finsbury Pavement, E.C. 2 |
| Howden James, & Co.                            | Scotland St., Glasgow                    |
| Parsons C. A., & Co.                           | Newcastle-on-Tyne                        |
| Thornycroft, J.L., & Co., Ltd.                 | Southampton                              |
| Vickers Limited                                | Sheffield                                |
| Wallsend Slipway & Engineering Co., Ltd.       | Wallsend                                 |
| White J. Samuel, & Co., Ltd.                   | East Cowes, Isle of Wight                |
| Willans & Robinson, Ltd.                       | Victoria Works, Rugby                    |

**Steel and Iron Makers.**

|                                |                             |
|--------------------------------|-----------------------------|
| Allen Edgar, & Co., Ltd.       | Sheffield                   |
| Beardmore Wm., & Co., Ltd.     | Glasgow                     |
| Bessemer Henry, & Co., Ltd.    | Sheffield                   |
| Brown John, & Co., Ltd.        | Sheffield                   |
| Burys & Co., Ltd.              | Sheffield                   |
| Cammell Laird & Co., Ltd.      | Sheffield                   |
| Colville David, & Sons, Ltd.   | Motherwell, nr. Glasgow     |
| Darlington Forge Co., Ltd.     | Darlington                  |
| Fairley James, & Sons          | Shadwell St., Birmingham    |
| Firth Thos., & Sons, Ltd.      | Norfolk Works, Sheffield    |
| Glasgow Iron & Steel Co., Ltd. | Wishaw, N.B.                |
| Hadfields Limited              | Hecla Works, Sheffield      |
| Howell & Co., Ltd.             | Brook Steel Wks., Sheffield |
| Lanarkshire Steel Co., Ltd.    | Motherwell                  |
| Leeds Forge Co., Ltd.          | Leeds                       |
| Marsden H. R., Ltd.            | Soho Foundry, Leeds         |
| Motherwell Iron & Steel Co.    | Motherwell, N.B.            |
| Osborn Samuel, & Co., Ltd.     | Clyde Steel Wks., Sheffield |

**Pearlite Steel Co. (1910), Ltd.**

|                             |                                 |
|-----------------------------|---------------------------------|
| Ramshay & Marshall, Ltd.    | Royds Mill St., Sheffield       |
| Scott Walter, Ltd.          | Birmingham                      |
| Steel Co. of Scotland, Ltd. | Leeds Steel Works, Leeds        |
|                             | 23, Royal Exchange Sq., Glasgow |

**Stewarts & Lloyds, Ltd.**

|                           |                                 |
|---------------------------|---------------------------------|
| 41, Oswald St., Glasgow   |                                 |
| & Nile St., Birmingham    |                                 |
| Turton T., & Sons, Ltd.   | Sheaf Works, Sheffield          |
| Vickers Limited           | Sheffield                       |
| Vanadium Alloys Steel Co. | Latrobe, Penn., U.S.A.          |
| Vulcan Steel Products Co. | 120, Broadway, New York, U.S.A. |

**Steel and Iron Works (Plant for).—(See Iron and Steel Works.)****Steel (Tool Special, and High-Speed).**

|                                 |                                   |
|---------------------------------|-----------------------------------|
| Allen Edgar, & Co., Ltd.        | Sheffield                         |
| American Steel Export Co.       | Woolworth Bldg., New York, U.S.A. |
| Beardshaw J., & Son, Ltd.       | Sheffield                         |
| Brown John, & Co., Ltd.         | Sheffield                         |
| Burys & Co., Ltd.               | Sheffield                         |
| Cammell Laird & Co., Ltd.       | Sheffield                         |
| Firth Thos., & Sons, Ltd.       | Norfolk Works, Sheffield          |
| Pearlite Steel Co. (1910), Ltd. | Royds Mill St., Sheffield         |
| Vanadium Alloys Steel Co.       | Latrobe, Penn., U.S.A.            |
| Vaughan Engineering Wks., Ltd.  | 22, Cross St., Islington, N.      |
| Vickers Limited                 | Sheffield                         |

**Steering Gear.**

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Turnbull Alex., & Co., Ltd. Bishopbriggs, Glasgow

**Stokers (Mechanical).**

Babcock & Wilcox, Ltd. .. Farrington St., E.C.  
 Bennis Ed., & Co., Ltd. .. Bolton  
 Meldrums Ltd. .. Timperley, nr. Manchester  
 Proctor J., Ltd. .. Burnley, Lancashire

**Stonebreakers.—(See also Disintegrators.)**

Allen Edgar, & Co., Ltd. Sheffield  
 Hadfields Limited Hecla Works, Sheffield  
 Marsden H. R., Ltd. .. Soho Foundry, Leeds  
 Robey & Co., Ltd. Lincoln  
 Western Wheeled Scraper Co. .. Aurora, Illinois, U.S.A.

**Structural Engineering.**

Anderson D., & Son, Ltd. Lagan Works, Belfast  
 Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks, Glasgow  
 Ash Joseph, & Son .. Rea St. South, Birmingham  
 Ashmore, Benson, Pease & Co., Ltd. .. Stockton-on-Tees  
 Baldwins Ltd. .. 5, Fenchurch St., E.C.  
 Bellamy John, Ltd. Millwall, S.E.  
 Brandon Bridge-Building Co., Ltd. .. Brandon Wks, Motherwell  
 Butterley Co., Ltd. Derby  
 Clayton Son, & Co., Ltd. Hunslet, Leeds  
 Cleveland Bridge & Engineering Co., Ltd. Darlington  
 Clyde Structural Iron Co., Ltd. Clyde-side Ironworks, Glasgow  
 Findlay Alex., & Co., Ltd. Motherwell, nr. Glasgow  
 Fletcher Geo., & Co., Ltd. Derby  
 Gibbons Bros., Ltd. Dudley, Worc.  
 Goodall, Clayton & Co., Ltd. Hunslet, Leeds  
 Head, Wrightson & Co., Ltd. Thornaby-on-Tees  
 Heenan & Froude, Ltd. Manchester  
 Keay E. C. & J., Ltd. Corporation St., Birmingham  
 Lillshall Co., Ltd. Oakengates, Shropshire  
 Maclellan P. & W., Ltd. .. Clutha Works, Glasgow  
 Main A. & J., & Co. .. 31, Budge Row, E.C.  
 Maxwell & Fage .. 49, Sefton St., Liverpool  
 Mechans Limited .. Glasgow  
 Motherwell Bridge Co., Ltd. Motherwell, N.B.  
 Piggott Thos., & Co., Ltd. Springhill, Birmingham  
 Rubery, Owen & Co. .. Darlaston, S. Staffordshire  
 Scott Walter, Ltd. Leeds  
 Smith & Pearson, Ltd. Dublin  
 Smulders A. F. .. Schiedam, Holland  
 Somerville D. G., & Co., Ltd. 120-122, Victoria St., S.W.  
 Stewarts & Lloyds, Ltd. 41, Oswald St., Glasgow  
 Vulcan Steel Products Co. 120, Broadway, New York, U.S.A.  
 Wood Edward, & Co., Ltd. Ocean Iron Wks., Manchester

**Sugar Machinery.**

Blair, Campbell & McLean, } Woodville St., Govan,  
 Ltd. } Glasgow  
 Davis & Primrose, Ltd. .. Leith, Edinburgh  
 Fawcett, Preston & Co., Ltd. Liverpool  
 Harvey Engineering Co., Ltd. Glasgow  
 Manlove, Elliott & Co., Ltd. Nottingham

**Sugar Machinery.—Continued.**

Mirrlees Watson Co., Ltd. Scotland St., Glasgow  
 Piggott Thos., & Co., Ltd. Springhill, Birmingham  
 Pott, Cassels & Williamson Motherwell, nr. Glasgow  
 Robey & Co., Ltd. .. Lincoln  
 Ruston, Proctor & Co., Ltd. Sheaf Ironworks, Lincoln  
 Stewart Duncan, & Co., Ltd. Glasgow  
 Watson, Laidlaw & Co., Ltd. 98, Dundas St. (South), Glasgow

**Superheaters.**

Danks H. & T. (Netherton), Ltd. Netherton, Dudley  
 Davey, Paxman & Co., Ltd. Colchester  
 Galloways, Ltd. Manchester  
 Garrett R., & Sons, Ltd. Leiston Works, Suffolk  
 Heenan & Froude, Ltd. Worcester  
 Mechans Limited Scotstoun Ironworks, Glasgow  
 Schmidt's Superheating Co. (rgrt), Ltd. 28, Victoria St., S.W.  
 Sugden T., Ltd. 180, Fleet St., E.C.  
 Superheater Units, Ltd. 4, Castle Sq., Swansea  
 Thompson John Wolverhampton  
 Tinker, Shenton & Co., Ltd. Hyde, nr. Manchester

**Surveyors.—(See Auctioneers, &c.)****Switchboards & Accessories.—(See also Electric Lighting & Power Plant, and Instruments—Electrical Surveying, &c.)**

British Thomson-Houston Co., Ltd. Rugby  
 Electric & Ordnance Accessories Co., Ltd. .. Aston, Birmingham  
 Electric Control, Ltd. .. Bridgeton, Glasgow  
 Ellison George .. Wellhead Lane Wks., Perry Bar, Birmingham  
 Holmes J. H., & Co. Newcastle-upon-Tyne  
 Igranic Electric Co., Ltd. 147, Queen Victoria St., E.C.  
 Reyrolle A., & Co., Ltd. .. Hebburn-on-Tyne

**Switches and Crossings.**

Cammell Laird & Co., Ltd. Sheffield  
 Heenan & Froude, Ltd. Worcester  
 McKenzie & Holland, Ltd. 58, Victoria St., S.W.  
 McKenzie, Holland & Westinghouse Power Signal Co., Ltd. .. 58, Victoria St., B.C.  
 Summerson Thomas, & Sons, Ltd. .. Darlington  
 Vickers Limited .. Sheffield  
 White Rd., & Sons .. Widnes, Lancs.

**Tanks and Drums.**

Ash Joseph, & Son .. Rea St. South, Birmingham  
 Baldwins, Ltd. .. 3, St. Helen's Pl., E.C.  
 Bellamy John, Ltd. .. Millwall, B. [N.W. 1  
 Braby Fredk., & Co., Ltd. 352 to 364, Euston Rd., London  
 Brandon Bridge-Building Co., Ltd. Brandon Wks, Motherwell  
 Brown Lenox & Co. (London), Ltd. .. Poplar, B.  
 Clay Cross Co., Ltd. .. Clay Cross, nr. Chester  
 Clayton Son, & Co., Ltd. .. Hunslet, Leeds [field  
 Clyde Structural Iron Co., Ltd. Clyde-side Ironworks, Glasgow  
 Danks H. & T. (Netherton), Ltd. Netherton, Dudley  
 Harvey G. A., & Co. (London), Ltd. .. Greenwich Metal Wks., Woolwich Rd., S.E.

**Tanks and Drums.—Continued.**

|                                |                            |
|--------------------------------|----------------------------|
| Head, Wrightson & Co., Ltd.    | Thornaby-on-Tees           |
| Jenkins R., & Co., ..          | Rotherham, Eng.            |
| Keay E. C. & J., Ltd. ..       | Corporation St., Bir-      |
|                                | mingham                    |
| Mechans Limited ..             | Glasgow                    |
| Motherwell Bridge Co., Ltd.    | Motherwell, N.B.           |
| Newton, Chambers & Co., Ltd.   | Thorncliffe Ironworks,     |
|                                | near Sheffield             |
| Peeters Francis ..             | Victoria Crescent, Burton- |
|                                | on-Trent                   |
| Piggott Thos., & Co., Ltd.     | Springhill, Birmingham     |
| Ransomes & Rapier, Ltd.        | Ipswich                    |
| Thompson Bros. (Bilston), Ltd. | Bradley Eng. & Boiler      |
|                                | Works, Bilston             |
| Toward T., & Co., Ltd. ..      | 9, Ouseburn, Newcastle-    |
|                                | on-Tyne                    |

**Tanners and Curriers.**

|                             |            |
|-----------------------------|------------|
| Tullis John, & Son, Ltd. .. | Glasgow    |
| Webb & Son (Combs), Ltd.    | Stowmarket |

**Taper Pins.—(See Pins—Taper.)****Tea-Dressing Machinery.**

|                                     |              |
|-------------------------------------|--------------|
| Marshall, Sons & Co., Ltd. ..       | Gainsborough |
| Ransomes, Sims & Jefferies, Ltd. .. | Ipswich      |

**Telegraph Cable-Laying Machines.—(See Cable-Laying Machinery.)****Telegraph Instruments.**

|                                                        |                |
|--------------------------------------------------------|----------------|
| India Rubber, Gutta Percha & Telegraph Wks., Co., Ltd. | Silvertown, B. |
|--------------------------------------------------------|----------------|

**Telegraph Wire & Cables.—(See also Electric Cables.)**

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| British Insulated & Helsby Cables, Ltd. ..            | Prescot, Lancashire |
| India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. | Silvertown, B.      |

**Telegraphs (Engine and Steering).**

|                         |                     |
|-------------------------|---------------------|
| Chadburn's (Ship) Tele- | Cyprus Rd., Bootle, |
| graph Co., Ltd. ..      | Lancs               |

**Telephones.**

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Caledonian Telephone (New System) Co., Ltd. .. | 62-64, Robertson St., Glasgow |
| Electric & Ordnance Accessories Co., Ltd. ..   | Aston, Birmingham             |

**Testing Machines.**

|                               |                         |
|-------------------------------|-------------------------|
| Avery W. & T., Ltd. ..        | Soho F'ndry, Birmingham |
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester     |
| Denison Saml., & Sons, Ltd.   | Far Hunslet, Leeds, S.  |
| Foster Instrument Co. ..      | Letchworth, Herts       |
| Tangyes Limited ..            | Birmingham              |

**Textile Machinery.****Thermometers.—(See Pyrometers.)****Timber.**

|                                   |                        |
|-----------------------------------|------------------------|
| Engineering Timber Co., Ltd. ..   | 11, Victoria St., S.W. |
| Jennings C., & Co. ..             | Pennywell Rd., Bristol |
| Southern James W., & Son, Ltd. .. | Store St., Manchester  |

**Timber (Drying and Preserving).**

|                      |                         |
|----------------------|-------------------------|
| Barry, Head & Co. .. | 110, Cannon St., E.C. 4 |
|----------------------|-------------------------|

**Time-Checking Machines and Registers.**

|                               |                     |
|-------------------------------|---------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester |
|-------------------------------|---------------------|

**Tools (Hand and Small).—(See also Chucks, Files, and Machine Tools.)**

|                                                    |                              |
|----------------------------------------------------|------------------------------|
| Alldays & Onlons (Pneumatic Engineering) Co., Ltd. | Birmingham                   |
| Armstrong Mfg. Co. ..                              | 338, Knowlton St., Bridge-   |
| Armstrong, Stevens & Son, Ltd. ..                  | port, Conn., U.S.A.          |
| Beardshaw J., & Son, Ltd.                          | Whitall St., Birmingham      |
| Bromell Patents Co., Ltd.                          | Baltic Steel Wks, Sheffield  |
| Canadian-American Machinerv Co., Ltd. ..           | 62, Robertson St., Glasgow   |
| Chatwin Thos., Ltd. ..                             | 8, Bouverie St., E.C. 4      |
| Churchill Chas., & Co., Ltd.                       | Gt. Tindal St., Birm'gham    |
| Coats Machine Tool Co., Ltd.                       | 9 to 15, Leonard St., E.C.   |
|                                                    | Palace Ch'b'rs., Bridge      |
|                                                    | St., Westminster, S.W.       |
| Consolidated Pneumatic Tool Co., Ltd. ..           | Palace Ch'b'rs, 9, Bridge    |
| Coventry Ordnance Wks., Ltd. ..                    | St., Westminster, S.W.       |
| Daniell S. A., Ltd. ..                             | Ordnance Wks., Coventry      |
|                                                    | Edward St., Parade, Bir-     |
|                                                    | mingham [Gow                 |
| Dempster, Moore & Co., Ltd.                        | 49, Robertson St., Glas-     |
| Firth Thos., & Sons, Ltd. ..                       | Norfolk Works, Sheffield     |
| Gilman Frank ..                                    | 62, Lightwoods Hill, Bir-    |
|                                                    | mingham                      |
| Graham Mfg. Co. ..                                 | Providence, Rhode Isl.       |
| Heap Joshua, & Co., Ltd.                           | Ashton-under-Lyne            |
| Jacobs Mfg. Co. ..                                 | Hartford, Conn., U.S.A.      |
| Lash Robert H. ..                                  | 29-31, Portugal St., W.C     |
| Leeds Tool & Mfg. Co., Ltd.                        | 121, Elland Rd., Leeds       |
| Oster Manufacturing Co. ..                         | Cleveland, Ohio, U.S.A.      |
| Parc, Ltd. ..                                      | Clarence Wks., Lock-         |
|                                                    | hurst Lane, Coventry         |
| Robertson Thos. R. ..                              | 7, Hurst St., Liverpool      |
| Selson Engineering Co., Ltd.                       | 85, Queen Victoria St., E.C. |
| Stone J. B., & Co., Ltd. ..                        | 135, Finsbury Pavement,      |
|                                                    | E.C.                         |
| Taylor Charles (Birm'gham), Ltd. ..                | Bartholomew Sq., Bir-        |
| Trimont Mfg. Co. ..                                | mingham                      |
| Vaughan Engineering Wks., Ltd. ..                  | 55-71, Amory St., Rox-       |
| Vickers Limited ..                                 | bury, Mass., U.S.A.          |
|                                                    | 22, Cross St., Islington,    |
|                                                    | N.                           |
|                                                    | Vickers House, Broad-        |
|                                                    | way, Westminster, S.W        |
| Ward H. W., & Co., Ltd. ..                         | Lionel St., Birmingham       |
| Wells A. C., & Co. ..                              | 102, Midland Rd., N.W.       |
| Widdowson John H. ..                               | Salford, Manchester          |
| Williams J. H., & Co. ..                           | 91, Richard St., Brooklyn    |
|                                                    | New York, U.S.A.             |
| Wrigley B. G., & Co., Ltd.                         | Foundry Lane Works,          |
|                                                    | Soho, Birmingham             |

**Tools (Pneumatic).—(See Pneumatic Tools.)****Torpedo Boats.**

|                                |                          |
|--------------------------------|--------------------------|
| Normand Augustin ..            | 67, Rue du Perrey, Le    |
|                                | Havre, France            |
| Smit L., & Zoon ..             | Kinderdijk, Holland      |
| Thornycroft, J.L., & Co., Ltd. | Caxton House, S.W.       |
| White J. Samuel, & Co., Ltd.   | East Cowes, Isle of Wigh |
| Yarrow & Co., Ltd. ..          | Glasgow                  |

**Torsion Meters.**

Chadburn's (Ship) Telegraph Co., Ltd. . . . . Cyprus Rd., Bootle, Lancs

**Tractors (Oil, Steam, &c.).**

Marshall, Sons & Co., Ltd. . . . . Gainsborough  
Robey & Co., Ltd. . . . . Lincoln

**Tramways and Tramway Plant.**

Allen Edgar, & Co., Ltd. . . . . Sheffield [E.C.  
Birch John, & Co., Ltd. . . . . 2, London Wall Buildings,  
Bolling & Lowe . . . . . 2, Laurence Pountney  
Brecknell, Munro & Rogers, (Hill, E.C.  
Ltd. . . . . Thrisell St., Bristol  
Brown John, & Co., Ltd. . . . . Sheffield  
Dick, Kerr & Co., Ltd. . . . . Abchurch Yard, E.C.  
Hadfields Limited . . . . . Hecla Works, Sheffield  
Hawthorn R. & W., Leslie & Co., Ltd. . . . . Newcastle-on-Tyne  
Hornsby R., & Sons, Ltd. . . . . Grantham  
Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
Kerr, Stuart & Co., Ltd. . . . . 3, Broad St. Place, B.C.  
Russell James, & Sons, Ltd. . . . . Crown Tube Works,  
Wednesbury

**Transporters.**

Arrol Sir Wm., & Co., Ltd. . . . . Bridgeton, Glasgow  
Brown Hoisting Machinery Co. . . . . Cleveland, Ohio, U.S.A.  
Cowans, Sheldon & Co., Ltd. . . . . Carlisle  
Higginbottom & Mannoek, Ltd. . . . . West Gorton, Manchester  
Ruston, Proctor & Co., Ltd. . . . . Sheaf Ironworks, Lincoln  
Strachan & Henshaw, Ltd. . . . . Whitehall, Bristol  
Whitaker D. . . . . 1, Union St., Leicester

**Tubes (Brass and Copper).—(See also Pipes.)**

Birmingham Battery and Metal Co., Ltd. . . . . Birmingham  
Bolton Thomas, & Sons, Ltd. . . . . 57, Bishopsgate, E.C.2  
Broughton Copper Co., Ltd. . . . . Manchester  
Delta Metal Co., Ltd. . . . . Dartmouth St., B'ingham  
Grice, Grice & Son, Ltd. . . . . Sheepcote St., B'ingham  
Muntz P. H., & Co., Ltd. . . . . West Bromwich  
Royle, Ltd. . . . . Irlam, near Manchester  
Yorkshire Copper Wks., Ltd. . . . . Leeds

**Tubes (Iron and Steel).**

American Steel Export Co. . . . . Woolworth Bldg., New York, U.S.A.  
Clayton, Son & Co., Ltd. . . . . Hunslet, Leeds  
Foster Brothers, Ltd. . . . . Wednesbury  
Howell & Co., Ltd. . . . . Sheffield [E.C.  
Le Bas Edward, & Co. . . . . Dock House, Billiter St.,  
Lewis B., & Sons . . . . . Wolverhampton  
Mechans Limited . . . . . Glasgow  
Muntz P. H., & Co., Ltd. . . . . West Bromwich  
Oriental Tube Co., Ltd. . . . . West Bromwich  
Piggott Thos., & Co., Ltd. . . . . Springhill, Birmingham  
Russell James, & Sons, Ltd. . . . . Wednesbury  
Russell John, & Co., Ltd. . . . . Alma Tube Wks., Walsall  
Scottish Tube Co., Ltd. . . . . 34, Robertson St., Glasgow  
Spencer John, Ltd. . . . . Wednesbury  
Staffordshire Tube Co., Ltd. . . . . Edmund St., Birmingham  
Steel Pipe Co., Ltd. . . . . Kirkcaldy, N.B.  
Stewarts & Lloyds, Ltd. . . . . 41, Oswald St., Glasgow;  
Birmingham  
Tubes, Ltd. . . . . Birmingham

**Tubes (Iron and Steel).—Continued.**

Vulcan Steel Products Co. . . . . 120, Broadway, New York, U.S.A.  
Weldless Steel Tube Co., Ltd. . . . . Icknield Port Rd., B'ham  
Tube-Making Machinery.  
Platt Samuel, Ltd. . . . . Wednesbury

**Tube Wells.—(See Well Engineers.)****Tug Boats.**

Day, Summers & Co., Ltd. . . . . Southampton  
Ferguson Bros. (Port Glasgow), Ltd. . . . . Newark Works, Port Glasgow  
Fleming & Ferguson, Ltd. . . . . Paisley, N.B.  
Hayes Edward . . . . . Stony Stratford, Wolver-  
Lohnitz & Co., Ltd. . . . . Renfrew, Scotland  
McKie & Baxter . . . . . Copland Works, Govan,  
Ross & Duncan . . . . . Glasgow [Glasgow  
Smit L., & Zoon . . . . . Kinderdijk, Holland  
Thornycroft J.I., & Co., Ltd. . . . . Southampton; & Caxton  
House, S.W.  
White J. Samuel, & Co., Ltd. . . . . East Cowes, Isle of Wight

**Turbine Pumps.—(See Pumps—Turbine.)****Turbines (Water).—(See also Steam Turbines.)**

Allen W. H. Son & Co., Ltd. . . . . Bedford  
Böwing & Co., Ltd. . . . . Imperial Bldgs., King-  
British Thomson-Houston way, W.C.  
Co., Ltd. . . . . Rugby  
Escher, Wyss & Co. . . . . 109, Victoria St., S.W.  
Günther W., & Sons . . . . . Central Works, Oldham  
Pitman Percy . . . . . 23, Victoria St., S.W.  
Thornycroft, J.I., & Co., Ltd. . . . . Southampton  
Vickers Limited . . . . . Sheffield

**Turnstiles.**

Ellison W. T., & Co., Ltd. . . . . Manchester  
Isler C., & Co., Ltd. . . . . Bear Lane, S.B.

**Turntables.**

Ashmore, Benson, Pease & Co., Ltd. . . . . Stockton-on-Tees  
Gowans, Sheldon & Co., Ltd. . . . . Carlisle [nr. Manchester  
Heenan & Froude, Ltd. . . . . Newton Heath Ironwks.,  
Kerr, Stuart & Co., Ltd. . . . . 5, Broad St. Place, E.C.  
Ransomes & Rapier, Ltd. . . . . Ipswich

**Tyres (Railway).**

Beardmore W., & Co., Ltd. . . . . Glasgow  
Bessemer Henry, & Co., Ltd. . . . . Sheffield  
Brown John, & Co., Ltd. . . . . Sheffield  
Cammell Laird & Co., Ltd. . . . . Sheffield  
Firth Thos., & Sons, Ltd. . . . . Norfolk Works, Sheffield  
Vickers Limited . . . . . Sheffield

**Tyres (Rubber).**

Dunlop Rubber Co., Ltd. . . . . Para Mills, Aston Cross,  
Birmingham  
Michelin Tyre Co., Ltd. . . . . 81, Fulham Rd., Chelsea,  
S.W.

**Vacuum Dust Plant.**

British Vacuum Cleaner } Dept. 5/20, Parson's  
Co., Ltd. . . . . } Green Lane, S.W.

**Valuers.—(See Auctioneers, &c.)****Valve Gear.**

**Valve Reseating Machines.**

Bromell Patents Co., Ltd. Glasgow

**Valves (Gas, Steam, Water, &c.).**

Alley & MacLellan, Ltd. . . . Sentinel Works, Glasgow  
 Aston Brass Co. & Whitehouse, Ltd. . . . Aston Lane, Birmingham  
 Auld David, & Sons, Ltd. . . . Whitevale F'dry, Glasgow  
 Bailey Sir W. H., & Co., Ltd. . . . Salford, Manchester  
 Bell's United Asbestos Co., Ltd. . . . 593, Southwark St., S.E.  
 Berry Henry, & Co., Ltd. . . . Croxdon Works, Leeds  
 Birkett T. M., & Sons, Ltd. . . . Hanley, Staffordshire  
 Blair, Campbell & MacLean, Ltd. . . . Woodville St., Govan, Glasgow  
 Blakeborough J., & Sons, Ltd. . . . Brighouse  
 British Steam Specialties, Ltd. . . . Bedford St., Leicester  
 Cockburns Limited . . . Cardonald, nr. Glasgow  
 Crosby Valve & Engineering Co., Ltd. . . . 147, Queen Victoria St., E.C.  
 Davies & Metcalfe, Ltd. . . . Romiley, nr. Manchester  
 Donkin Co., Ltd. (The Bryan) . . . Chesterfield  
 East Ferry Road Engineering Works Co., Ltd. . . . Millwall, E.  
 Glenfield & Kennedy, Ltd. . . . Kilmarnock, N.B.  
 Guest & Chrimmes . . . Rotherham  
 Gutta Percha & Rubber, Ltd. . . . Toronto, Canada  
 Ham, Baker & Co., Ltd. . . . Langley Green, Birmingham  
 Hopkisson J., & Co., Ltd. . . . Huddersfield  
 Jenkins Bros. Ltd. . . . 95, Queen Victoria St., E.C.  
 Lunkan Company, Ltd. . . . 35, Great Dover St., S.E.  
 Metallic Mfg. Co. . . . Ardrossan  
 Metallic Valve Co. . . . Colonial Hse., Water St., Liverpool  
 Piggott Thos., & Co., Ltd. . . . Birmingham  
 Rice & Co. (Leeds), Ltd. . . . Eland Rd., Leeds  
 Royles, Ltd. . . . Irlam, nr. Manchester  
 Turnbull Alex., & Co., Ltd. . . . Bishopbriggs, Glasgow  
 Woodie Works . . . Mitcham Common, Surrey  
 Worthington Pump Co., Ltd. . . . India House, Kingsway, W.C.

**Valves (Reducing).**

Auld David, & Sons, Ltd. . . . Whitevale F'dry, Glasgow  
 Bailey Sir W. H., & Co., Ltd. . . . Salford, Manchester  
 Blakeborough J., & Sons, Ltd. . . . Brighouse  
 Cockburns Limited . . . Clydesdale Eng. Works, Cardonald, Glasgow  
 Hopkinson J., & Co., Ltd. . . . Huddersfield  
 Mason Regulator Co. . . . Boston, Mass., U.S.A.  
 Royles Limited . . . Irlam, near Manchester  
 Sugden T., Ltd. . . . 180, Fleet St., E.C.  
 Turnbull Alex., & Co., Ltd. . . . Bishopbriggs, Glasgow

**Valves (Safety).**

Bailey Sir W. H., & Co., Ltd. . . . Salford, Manchester  
 Blakeborough J., & Sons, Ltd. . . . Brighouse  
 Cockburns Limited . . . Cardonald, near Glasgow  
 Crosby Valve & Engineering Co., Ltd. . . . 147, Queen Victoria St., E.C.  
 Hobdell, Way & Co., Ltd. . . . St. John's House, 124-3, Minorities, E.  
 Hopkinson J., & Co., Ltd. . . . Huddersfield  
 Lunkan Company, Ltd. . . . 35, Great Dover St., E.C.  
 Royles Limited . . . Irlam, nr. Manchester  
 Turnbull Alex., & Co., Ltd. . . . Bishopbriggs, Glasgow

**Ventilators.—(See also Fans and Blowers.)**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. . . . Birmingham  
 Allen W. H., Son & Co., Ltd. . . . Bedford  
 American Steel Export Co. . . . Woolworth Bldg., New York, U.S.A.  
 Boyle R., & Son . . . 64, Holborn Viaduct, E.C.  
 Electric & Ordnance Accessories Co., Ltd. . . . Aston, Birmingham  
 Heenan & Froude, Ltd. . . . Worcester  
 Keith James, & Blackman Co., Ltd. . . . 27, Farringdon Avenue, E.C.  
 Murray, McVinnie & Co., Ltd. . . . Mavisbank Quay, Glasgow  
 Musgrave & Co., Ltd. . . . St. Anne's Ironworks, Belfast  
 Royce Ltd. . . . Trafford Park, M'chester  
 Standard Eng. Co., Ltd. . . . Leicester  
 Sturtevant Engineering Co., Ltd. . . . 147, Queen Victoria St., E.C.  
 Thermotank Co. . . . 55, West Regent St., Glasgow

**Vices.**

Alldays & Onions (Pneumatic Engineering) Co., Ltd. . . . 58, Holborn Viaduct, E.C.  
 Firth Thos., & Sons, Ltd. . . . Norfolk Works, Sheffield  
 Graham Mfg. Co. . . . Providence, Rhode Isld.  
 Hampton C. & J., Ltd. . . . Attercliffe, Sheffield

**Vulcanite and Vulcanised Rubber Goods.)**

India-Rubber Gutta Percha & Telegraph Works Co., Ltd. . . . Silvertown, E.  
 Reddaway F., & Co., Ltd. . . . Pendleton, Manchester

**Wagon (Railway) Builders.**

Bagnall W. G., Ltd. . . . Castle Engine Wks, Staffs  
 Glasgow Railway Engineering Co., Ltd. . . . Govan, Glasgow  
 Head, Wrightson & Co., Ltd. . . . Thornaby-on-Tees  
 Heenan & Froude, Ltd. . . . Worcester  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 Kerr, Stuart & Co., Ltd. . . . 5, Broad St. Place, E.C.  
 Leeds Forge Co., Ltd. . . . Leeds  
 McLachlan & Co., Ltd. . . . Darlington  
 MacLellan P. & W., Ltd. . . . Glutha Works, Glasgow  
 Midland Railway Carriage and Wagon Co., Ltd. . . . Midland Wks, Birm'gham  
 Pickering R. Y., & Co., Ltd. . . . Wishaw, near Glasgow

**Wagons (Self-Propelled).—(See Motor Vehicles.)****Wagons (Tip).**

Bagnall W. G., Ltd. . . . Castle Engine Works  
 Bellamy John, Ltd. . . . Millwall, E. (Stafford)  
 Dick, Kerr & Co., Ltd. . . . Abchurch Yard, E.C.  
 Hadfields Limited . . . Hecla Works, Sheffield  
 Hurst, Nelson & Co., Ltd. . . . Motherwell, N.B.  
 Kerr, Stuart & Co., Ltd. . . . 5, Broad St. Place, E.C.  
 McLachlan & Co., Ltd. . . . Darlington  
 Western Wheelbed Scraper Co. . . . Aurora, Illinois, U.S.A.

**Watches and Clocks.**

Bailey Sir W. H., & Co., Ltd. . . . Salford, Manchester  
 Smith S., & Son, Ltd. . . . Grand Hotel Buildings, Trafalgar Sq., W.C.

**Water Cooling Plant.**

Davenport Engineering Co. Harris St., Bradford  
 Klein Engineering Co. } 94, Market St., Man-  
 (1908), Ltd. } chester  
 Premier Cooler & Engineer- } Broadway Court, Broad-  
 ing Co., Ltd. } way, Westminster, S.W.

**Waterproofing Compounds.**

Ironite Co., Ltd. .. .. 11, Old Queen St., West-  
 minster, S.W. 1

**Water-Purifying Apparatus.—(See Feed-Water Fillers.)**

Bellamy John, Ltd. .. Millwall, B.  
 Bowes Scott & Western, } Broadway Chambers,  
 Ltd. } Westminster, S.W.  
 Buhning's Patent Water }  
 Purifying Co. } 60, Wilson St., E.C.  
 Harris Patent Feed-Water }  
 Filter (1910), Ltd. } 24, Grainger St. West,  
 Kennicott Water Softener } Newcastle-on-Tyne  
 Co. } Bttinghall Works, Wol-  
 verhampton  
 Mather & Platt, Ltd. } Manchester  
 Paterson Engineering Co., } 21, India House, Kings-  
 way, W.C.  
 Pulsometer Engineering } Nine Elms Ironworks,  
 Co., Ltd. } Reading  
 Royles Limited } Irlam, near Manchester  
 Rubery, Owen & Co. } Darlaston, South Staffs  
 United Water Softeners, Ltd. } Imperial House, Kings-  
 way, W.C.  
 Wright's Forge & Engineer- }  
 ing Co., Ltd. } Tipton, Staffordshire

**Water Wheels.—(See also Turbines—Water.)**

Barry, Henry & Co., Ltd. .. Aberdeen  
 Bodley Bros., & Co. .. Exeter [burgh  
 Davis & Primrose, Ltd. .. Bangor Rd., Leith, Edin-  
 burgh  
 Pitman, Percy .. 25, Victoria St., S.W.  
 Stothert & Pitt, Ltd. .. Bath

**Welshing Machines.**

Avery W. & T., Ltd. .. Soho Foundry, Birmingham  
 Bennis Ed., & Co., Ltd. .. Bolton [ham  
 Denison Saml., & Son, Ltd. } Far Hunslet, Leeds, S.  
 East Ferry Road Engineer- }  
 ing Works Co., Ltd. } Millwall, B.  
 Klein Engineering Co. } 94, Market St., Man-  
 (1908), Ltd. } chester  
 Pooley Henry, & Son, Ltd. } John Bright St., Birming-  
 ham  
 Wonham, Bates & Goode, } 17, Battery Place, New  
 (Inc.) .. .. York City, U.S.A.

**Welding and Cutting Plant.**

Acetylene Corporation, Ltd. 49, Victoria St., S.W.  
 Acetylene Illuminating Co., } 268 & 270, South Lambeth  
 Ltd. } Road, S.W.  
 Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.  
 British Insulated & Helsby }  
 Cables, Ltd. } Prescott, Lancashire  
 British Oxygen Co., Ltd. } Riverton St., S.W.  
 British Thermit Co., Ltd. } 49-51, The Albany,  
 Liverpool  
 Hartley & Sugden, Ltd. .. Atlas Works, Halifax,  
 Yorks  
 Imperial Light, Limited .. 123, Victoria St., S.W.  
 McGowan, Wild & Co. .. Hurst St., Birmingham  
 Naish & Croft .. .. 150, Alma St. Birmingham

**Well Engineers.—(See also Boring & Sinking Tools & Machinery for Shafts and Wells.)****Wheel-Cutting Machinery.—(See Gear Cutters.)****Wheels (Geared).**

Angus George, & Co., Ltd. Newcastle-on-Tyne  
 Barry Henry, & Co., Ltd. .. Aberdeen  
 Bessemer Henry, & Co., Ltd. Sheffield  
 Bodley Bros. & Co. .. Exeter  
 British Insulated & Helsby }  
 Cables, Ltd. } Prescott, Lancashire  
 Brown David, & Sons } Park Works, Hudders-  
 (Huddersfield), Ltd. } field  
 Campbells & Hunter, Ltd. } Dolphin Foundry, Leeds  
 Entwistle & Gass, Ltd. .. Atlas Foundry, Bolton  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hawthorn R. & W., Leale }  
 & Co., Ltd. } Newcastle-on-Tyne  
 Kirkstall Forge Co., Ltd. Leeds  
 Lang John, & Sons } Johnstone, nr. Glasgow  
 Manlove, Allkott & Co., Ltd. Nottingham  
 Moss Gear Co., Ltd. .. Aston Manor, Birmingham  
 Reay Gearworks, Ltd. .. Gateshead-on-Tyne  
 Reid Gear Co. .. Linwood, near Paisley  
 Richards Gen., & Co., Ltd. Broadbeath, nr. M'chester  
 Shaw W., & Co. .. Middlesbro'-on-Tees  
 Thornycroft J.I., & Co., Ltd. Basingstoke  
 Turbine Gears, Ltd. .. Hyde  
 Unbreakable Pulley & Mill } 48, West Gorton, Man-  
 Gearing Co., Ltd. } chester  
 Wigglesworth, Frank, & Co. Clutch Wks., Shipley, nr.  
 Bradford  
 Wrigley E. G., & Co., Ltd. Foundry Lane Works,  
 Soho, Birmingham  
 Yates & Thom, Ltd. .. Canal Works, Blackburn

**Wheels (Railway).**

American Steel Foundries 5, Laurence Pountney  
 Hill, E.C.  
 Beardmore W., & Co., Ltd. Glasgow  
 Birmingham Railway Car- }  
 riage & Wagon Co., Ltd. } Smethwick, Birmingham  
 Firth Thos., & Sons, Ltd. } Norfolk Works, Sheffield  
 Glasgow Railway Engineer- }  
 ing Co., Ltd. } Govan, Glasgow  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.  
 Midland Railway Carriage }  
 & Wagon Co., Ltd. } Midland Wks, Birm'gham  
 Pickering R. Y., & Co., Ltd. Wishaw, near Glasgow  
 Sankey Joseph, & Sons, Ltd. Hadley, Salop

**Wheels (Rawhide, &c.).**

Angus George, & Co., Ltd. Newcastle-on-Tyne  
 British Thomson-Houston }  
 Co., Ltd. } Rugby  
 Reay Gearworks, Ltd. .. Gateshead-on-Tyne

**Whitewashing and Painting Machines.**

Aerograph Co., Ltd. .. 45, Holborn Viaduct,  
 E.C.  
 Alrostyle & Lithos, Ltd. .. 35, St. Bride St., Lud-  
 gate Circus, E.C.  
 Wells A. C., & Co. .. 102, Midland Rd., N.W.

**Winches.—(See Cranes.)****Windlasses.**

Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Turnbull Alex., & Co., Ltd. Bishopbriggs, Glasgow



**Wire and Wire Rope Makers.**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Birmingham Battery and Metal Co., Ltd. . . . .  | Birmingham                       |
| British Insulated & Helsby Cables, Ltd. . . . . | Prescot, Lancashire              |
| Bolton Thomas, & Sons Ltd. . . . .              | 57, Bishopsgate, E.C.2           |
| Brown W. B., & Co. (Bank-hall), Ltd. . . . .    | Globe Works, Bankhall, Liverpool |
| Bullivant & Co., Ltd. . . . .                   | 72, Mark Lane, E.C.              |
| Cooke William, & Co., Ltd. . . . .              | Tinsley Works, Sheffield         |
| Cousland A., & Son . . . . .                    | 3, Mitchell St., Glasgow         |
| Cradock Geo., & Co., Ltd. . . . .               | Wakefield [ham                   |
| Delta Metal Co., Ltd. . . . .                   | Dartmouth St., Birming-          |
| Elliot George, & Co., Ltd. . . . .              | 16, Gt. George St., S.W. Leeds   |
| Fowler J. & Co. (Leeds), Ltd. . . . .           | Leeds                            |
| Vulcan Steel Products Co. . . . .               | 120, Broadway, New York, U.S.A.  |

**Wire Weaving, Straightening, Coiling, Cutting, &c. (Machines for).**

|                                     |                           |
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| Anderston Foundry Co., Ltd. . . . . | Glasgow                   |
| Nilson A. H., Machine Co. . . . .   | Bridgeport, Conn., U.S.A. |
| Shuster F. B. Co. . . . .           | Newhaven, Conn., U.S.A.   |
| Sleeper & Hartley (Inc.) . . . . .  | Worcester, Mass., U.S.A.  |

**Woodite for Steam, Electrical and Hydraulic Packings.**

Woodite Works . . . . . Mitcham Common, Surrey

**Wood-Wool Machinery.**

Ransome A., & Co., Ltd. . . . . Stanley Works, Newark-on-Trent

**Wood-Working Machinery.**

|                                       |                                |
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| Broom & Wade, Ltd. . . . .            | High Wycombe                   |
| Dempster, Moore & Co., Ltd. . . . .   | Robertson St., Glasgow         |
| Marshall, Sons & Co., Ltd. . . . .    | Gainsborough                   |
| Pickles John, & Son . . . . .         | Hebden Bridge, Yorks           |
| Pollock, Macnab & High-gate . . . . . | Shettleston, Glasgow           |
| Ransome A., & Co., Ltd. . . . .       | Stanley Works, Newark-on-Trent |
| Richards Geo., & Co., Ltd. . . . .    | Broadheath, near Manchester    |
| Robinson Thos., & Son, Ltd. . . . .   | Rochdale                       |
| Wadkin & Co. . . . .                  | London St., Leicester          |

**Worm Gearing.**

|                                     |                          |
|-------------------------------------|--------------------------|
| Bodley Bros. & Co. . . . .          | Old Quay Foundry, Exeter |
| Wallwork Henry, & Co., Ltd. . . . . | Manchester               |

**Yachts.**—(See *Launches and Yachts.*)



# LIST OF ADDRESSES, Telegraphic Addresses, Codes, & Telephone Numbers OF FIRMS NOW ADVERTISING in "ENGINEERING."

| NAME AND ADDRESS OF ADVERTISER.                |                                                                                       |  | TELEPHONE<br>NUMBER.                   | TELEGRAPHIC ADDRESS.                     |
|------------------------------------------------|---------------------------------------------------------------------------------------|--|----------------------------------------|------------------------------------------|
| A.-B. Diesels Motorer, Stockholm, Sweden .. .. |                                                                                       |  | —                                      | Diesel-Motorer, Stockholm                |
| 1                                              | Abbott & Co. (Newark), Ltd., Newark-on-Trent .. ..                                    |  | 34                                     | Abbott, Newark                           |
|                                                | Acetylene Corporation, Ltd., 49, Victoria St., S.W. ..                                |  | Victoria 4830                          | Flamma, London                           |
| 1 16                                           | Acetylene Illuminating Co., Ltd., 268 & 270, South<br>Lambeth Rd., S.W. .. ..         |  | { Brixton 2171-4 }<br>Four Lines       | Endazzle, London                         |
| 1 16                                           | Adamson Daniel, & Co., Ltd., Dukinfield .. ..                                         |  | .. Ashton 9                            | Adamson, Dukinfield                      |
|                                                | Adams British Oil Co., Ltd., Deptford, S.E. .. ..                                     |  | New Cross 92                           | Flashpoint, Rothlow, London              |
|                                                | Adaptable Moulding Machine Co., Stanhope St., Birmingham                              |  | Midland 1966                           | Adaptable, Birmingham                    |
|                                                | Aerograph Co., Ltd., 45, Holborn Viaduct, E.C. ..                                     |  | Holborn 2641                           | Aerography, London                       |
|                                                | Aeronautical Institute of Great Britain, 3, Arlington St.,<br>St. James's, S.W. .. .. |  | Gerrard 6468                           | Zepstralia, Phone, London                |
| 11                                             | Ailsa Shipbuilding Co., Ltd., Troon, N.B. .. ..                                       |  | Troon 38, 39 & 58                      | Shipyard, Troon                          |
| 1                                              | Alrestyle & Lithos, Ltd., 35, St. Bride St., Ludgate<br>Circus, E.C. .. ..            |  | Central 12025                          | Alrestyle, Fleet, London                 |
|                                                | Albion Foundry, Browning St., Ladywood, Birmingham ..                                 |  | —                                      | —                                        |
|                                                | Alton & Co., Ltd., Derby .. ..                                                        |  | .. Derby 525                           | Channeled, Derby                         |
|                                                | Alexander E. P., & Son, 306, High Holborn, W.C. ..                                    |  | Central 7424                           | Epa, London                              |
|                                                | Alexander Herbert, & Co. .. ..                                                        |  | Central 4580                           | Alexson, Leeds.                          |
| 1                                              | Alldays & Onions Pneumatic Engineering Co., Ltd.,<br>Birmingham .. ..                 |  | { Victoria 487 }<br>Two Lines          | Alldays, Birmingham                      |
|                                                | Alldays & Onions Pneumatic Engineering Co., Ltd., 58,<br>Holborn Viaduct, E.C. .. ..  |  | Holborn 5948                           | Typhoon, London                          |
|                                                | Allen Edgar, & Co., Ltd., Imperial Steel Works, Sheffield                             |  | [Sheffield 917                         | Allen, Sheffield                         |
| 1 4                                            | Allen-Liversidge, Ltd., 106, Victoria St., S.W. ..                                    |  | Victoria 4155                          | Accelerator, Sowest, London              |
| 1 2                                            | Allen W. H., Son, & Co., Ltd., Queen's Engineering Wks., Bedford                      |  | 1                                      | Pump, Bedford                            |
| 1 2                                            | Allen W. H., Son, & Co., Ltd., 1, Queen Anne's Chmbs., S.W. [Victoria 7680            |  |                                        | Pump, London                             |
| 2 3 6                                          | Alley & MacLellan, Ltd., Sentinel Works, Glasgow ..                                   |  | Queen's Park 751                       | Alley, Glasgow                           |
|                                                | Aluminium Plant & Vessel Co., Ltd., Point Pleasant, S.W. 18                           |  | Putney 2353                            | Anaclastic, Wands., London               |
| 1 4 16                                         | American Steel Export Co., Woolworth Bldg., New York,<br>U.S.A. .. ..                 |  | —                                      | Allports                                 |
| 16                                             | American Steel Foundries, 5, Laurence Pountney Hill, E.C.                             |  | Central 3098                           | Insatiable, London                       |
| 1 16                                           | American Lead Pencil Co., 173-5, Lower Clapton Rd., N.E.                              |  | Dalston 800                            | Eerik, London                            |
| 1                                              | Anderson D., & Son, Ltd., Lagan Works, Belfast                                        |  |                                        |                                          |
|                                                | Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Court,<br>E.C. .. ..             |  | Belfast 4033, 4034 & 4035<br>City 2704 | Anderson, Belfast                        |
| 1 4 6                                          | Angus George, & Co., Ltd., Newcastle-on-Tyne .. ..                                    |  | .. 956 & 957                           | Mexprodur, Ave., London                  |
| 1 2 3                                          | Archdale Jas., & Co., Ltd., Ledsam St., Birmingham ..                                 |  | .. 3558                                | Angus, Newcastle<br>Archdale, Birmingham |
|                                                | Armstrong Mfg. Co., 338, Knowlton St., Bridgeport, Conn., U.S.A                       |  | —                                      |                                          |
|                                                | Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham                              |  | Central 6148 & 6149                    | Armstrongs, Birmingham                   |

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11 Scott's. 16 Western Union.

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|---------------------------------|---------------------------------------------------------------------------------------------|--------------------------------|--------------------------------|
| 1                               | Arnold Edward, 41 & 43, Maddox St., W. .. ..                                                | Mayfair 1883                   | Scholarly, London              |
|                                 | Arrol Sir William, & Co., Ltd., Bridgeton, Glasgow ..                                       | Bridgeton 940-943              | Tay, Glasgow                   |
|                                 | Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham [Midland 2440                       |                                | Tanks, Birmingham              |
| 1                               | Ash Rubber Stamp Co., Ltd., 19, Constitution Hill, Birmingham .. ..                         | [Central 788 & 7160            | Sidash, Birmingham             |
| 4                               | Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees [Stockton 501                          |                                | Casholder, Stockton-on-Tees    |
| 1                               | Asquith William, Ltd., Park Works, Halifax .. ..                                            | Halifax 1558                   | Drill, Halifax                 |
|                                 | Aston Brass Co. & Whitehouse, Ltd., Aston Lane, Birmingham                                  | Bast 74                        | Durability, Birmingham         |
| 1                               | Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C. [Central 2210                  |                                | Aloyau, Cannon. London         |
| 3                               | Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow [Bridgeton 236                         |                                | Reducing, Glasgow              |
|                                 | Austin Motor Co., Ltd., 479-483, Oxford St., W. [Mayfair 6230 & 6234                        |                                | Austinette, Wesdo, London      |
| 6                               | Avelling & Porter, Ltd., Rochester .. ..                                                    | Chatham 512                    | Avelling, Rochester            |
| 1 2                             | Avery W. & T., Ltd., Soho Foundry, Birmingham .. {                                          | Smethwick 134<br>Two Lines     | Avery, Birmingham              |
| 1 6                             | Avenside Engine Co., Ltd., Bristol .. ..                                                    | Fishponds 30                   | Lece, Bristol                  |
|                                 |                                                                                             |                                |                                |
| 20                              | Bagnall W. G., Ltd., Castle Engine Works, Stafford .. ..                                    | 15                             | Bagnall, Stafford              |
|                                 | Bailey Sir W. H., & Co., Ltd., Albion Works, Salford, Manchester                            | 391                            | Beacon, Salford                |
| 1 16                            | Baldwin Locomotive Works, The, 34, Victoria St., S.W. [Victoria 4441                        |                                | Fribald, London                |
| 1 16                            | Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A. .. ..        | —                              | Baldwin, Philadelphia          |
| 1 8                             | Baldwins, Ltd., 3, St. Helen's Place, Bishopsgate, E.C. [Avenue 5113-4                      |                                | Promptitude, London            |
| 1 8                             | Baldwins, Ltd., Orchard Place, Blackwall, E. .. ..                                          | East 1014                      | Silverline, London             |
|                                 | Balmforth T., & Co., Ltd., Luton .. ..                                                      | {<br>Two Lines                 | Balmforth, Luton               |
| 1 2 3 4                         | Barclay Andrew, Sons, & Co., Ltd., Caledonia Wks., Kilmarnock 10 & 11                       |                                | Barclayson, Kilmarnock         |
|                                 | Barker, Splink, Lease & Co., Rosse Works, Shipley, Yorks .. ..                              | —                              |                                |
| 1                               | Barry, Head & Co., 110, Cannon St., E.C. 4 .. ..                                            | Central 10632                  | Till, London                   |
|                                 | Barry, Henry & Co., Ltd., Aberdeen .. ..                                                    | Central 333                    | Barry, Aberdeen                |
| 1 6                             | Baxter, Fell & Co., 22-23, Great Tower St., E.C.3 .. ..                                     | Avenue 5348                    | Aluferal, Bilgate, London      |
| 1 2 16                          | Bayliss, Jones & Bayliss, Ltd., Wolverhampton .. ..                                         | 630                            | Bayliss, Wolverhampton         |
| 1 2 16                          | Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C. [Bank 889                       |                                | Lockfast, London               |
|                                 | Beardmore William, & Co., Ltd., Parkhead Forge Rolling Mills and Steel Works, Glasgow .. .. | N. Clydebank 91                | Beardmore, Glasgow             |
| 6                               | Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield .. ..                              | 77 & 80                        | Beardshaw, Sheffield           |
| 6                               | Beardshaw J., & Son, Ltd., 38, Victoria St., S.W. .. ..                                     | Victoria 1060                  | Vilvalle, London               |
|                                 | Beebe A., Wednesbury .. ..                                                                  | Darlaston 81                   | Beebe, Fallings Heath, Wednes- |
| 1                               | Beldam Packing & Rubber Co., Ltd. 1 & 2, Gracechurch St., E.C. .. ..                        | Avenue 5204                    | Corrugated, London             |
|                                 | Bellamy John, Ltd., Byng St., Millwall E. .. ..                                             | East 157                       | Bellamy, London                |
| 1 3 16                          | Belliss & Norcom, Ltd., Ledsam St. Works Birmingham                                         | {<br>Central 3044<br>Two Lines | Belliss, Birmingham            |
| 3 16                            | Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.E. .. ..                            | {<br>Hop 4040<br>Four Lines    | Bellry or Asbestos, London     |
|                                 | Benns Ed., & Co., Ltd., Little Hulton, Bolton .. ..                                         | Farnworth 13                   | Benns, Little Hulton, Bolton   |
| 1                               | Bergius Launch & Engine Co., Ltd., Dobbies Loan, Glasgow [Douglas 1267-8                    |                                | Bergius, Glasgow               |
| 1 3                             | Berry F., & Sons, Sowerby Bridge, Yorkshire .. ..                                           | 525                            | Berry, Sowerby Bridge          |
| 1 2 3                           | Berry Henry, & Co., Ltd., Croydon Works, Leeds .. ..                                        | Central 557                    | Riveter, Leeds                 |
| 1 4 16 33                       | Bertrams Limited, Sciennes, Edinburgh .. ..                                                 | Central 6445-6                 | Bertram, Edinburgh             |
| 1                               | Bessemer Henry, & Co., Ltd., Sheffield .. ..                                                | 161                            | Bessemer, Sheffield            |

Telegraphic Codes in use: 1 A B C. 2 A I. 3 Engineering. 4 Lieber's. 6 Private.  
8 International. 16 Western Union. 20 McNeill's. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER. |                                                                                         | TELEPHONE NUMBER.                              | TELEGRAPHIC ADDRESS.            |
|---------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------|---------------------------------|
| 1 3                             | Bever, Dorting & Co., Ltd., Bowling Ironworks, Bradford                                 | 1644                                           | Foundry, Bradford               |
| 1                               | Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester                                  | 255                                            | Loco, Gorton                    |
| 1                               | Billington & Newton, Ltd., Longport, Stoke-on-Trent                                     | Burslem 364                                    | Bronze, Longport                |
| 1 2 3 6                         | Birch John & Co., Ltd., 2, London Wall Buildings, E.C.                                  | City 4175                                      | Endeavour, London               |
|                                 | Birkett T. M., & Sons, Ltd., Hanley, Staffordshire                                      | 284                                            | Birkett, Hanley                 |
| 1                               | Birmingham Battery & Metal Co., Ltd., Birmingham                                        | 51 & 52                                        | Battery, Selly Oak              |
| 1 16                            | Birmingham Railway Carriage & Wagon Co., Ltd., The Smethwick, Birmingham                | Smethwick 296<br>Four Lines                    | Carriage, Smethwick, Birmingham |
|                                 | Blackall F. S., Woolworth Tower, New York, U.S.A.                                       | —                                              | —                               |
| 1                               | Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow                           | Govan 262                                      | Blaxon, Glasgow                 |
| 1 16 33                         | Blakborough J., & Sons, Ltd., Woodhouse Works, Brighouse                                | 24 & 145                                       | Blakboroughs, Brighouse         |
|                                 | Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E. | East 29                                        | Blundell, Pop., London          |
|                                 | Bodley Bros. & Co., Old Quay Foundry, Exeter                                            | 189                                            | Bodley, Exeter                  |
| 1 2 3 4                         | Bolling & Lowe, 2, Laurence Pountney Hill, E.C.                                         | Bank 530                                       | Bird, London                    |
| 2 4 16                          | Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C.2                                     | Central 632                                    | Wiredrawn, Led., London         |
| 1 3                             | Booth Joseph, & Bros., Union Ironworks, Rodley, Leeds                                   | [Stanningley 20<br>Holborn 6420<br>Three Lines | Cranes, Rodley                  |
| 1 16                            | Boving & Co., Ltd., Imperial Buildings, Kingsway, W.C.                                  | —                                              | Jenoretta, Westcent, London     |
| 16 20                           | Bowes, Scott & Western, Ltd., Broadway Chambers, Westminster, S.W.                      | Victoria 872 & 4799                            | Bombowes, Vic., London          |
|                                 | Bowran, Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne               | National 1780                                  | Bowran, Newcastle-on-Tyne       |
| 1                               | Boyle R., & Son, 64, Holborn Viaduct, E.C.                                              | —                                              | Hypostile, London               |
| 1                               | Boyle R., & Son, 110, Bothwell St., Glasgow                                             | —                                              | Hypostile, Glasgow              |
|                                 | Braby Fred., & Co., Ltd., Fitzroy Wks., 352-364, Euston Rd., N.W. 1                     | Museum 3632<br>Five Lines                      | Courteous, Eusroad, London      |
| 1 2 3                           | Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield                              | 3                                              | Craven, Wakefield               |
| 1 5 20                          | Bradley Pulverizer Co., 37, Walbrook, E.C.                                              | London Wall 707                                | Equestrian, London              |
|                                 | Braine T. F., & Co., Ltd., Hunslet, Leeds                                               | 1767                                           | Braine, Hunslet, Leeds          |
|                                 | Brampton Bros., Ltd., Birmingham                                                        | East 185 & 186                                 | Brampton, Birmingham            |
| 1 2                             | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell                            | Motherwell 11                                  | Gilder, Motherwell              |
|                                 | Brayshaw Furnaces & Tools, Ltd., Mulberry St., Hulme, Manchester                        | City 6771                                      | Hardening, Manchester           |
| 1                               | Brecknell, Munro & Rogers, Ltd., Thrissell St., Bristol                                 | 3137, 3138                                     | Brecknell, Bristol              |
| 1 6                             | Brett's Patent Lifter Co., Ltd., Coventry                                               | 384                                            | Lifter, Coventry                |
| 1                               | Brightside Foundry & Engineering Co., Ltd., Sheffield                                   | 853                                            | Castings, Sheffield             |
| 1                               | Briquette Machinery, Ltd., Charnmouth St., Leeds                                        | Central 4580                                   | Briquette, Leeds                |
|                                 | British Carbonizing Co., Ltd., Vulcan Works, Gloucester                                 | Gloucester 971                                 | Holpebs, Gloucester             |
| 1                               | British Chuck & Piston Ring Co., Ltd., Holbrook Lane, Coventry                          | Coventry 723                                   | Rings, Coventry                 |
|                                 | British Commercial Gas Association, 47, Victoria St., S.W.                              | Victoria 2200                                  | Gasapreme, London               |
| 1                               | British Electric Plant Co., Ltd., 78, St. Vincent St., Glasgow                          | [Central 5724-5                                | Bepco, Glasgow                  |
|                                 | British Insulated & Helsby Cables, Ltd., Prescott, Lancs.                               | Prescot 71                                     | Insulator, Prescot              |
| 16                              | British Lighting & Ignition Co., Ltd., 204, Tottenham Court Rd., W.                     | Museum 430                                     | Vicksag, Phone, London          |
| 1                               | British Locomotive Boiler Co., Ltd., Caxton House, Westminster, S.W.                    | Victoria 4986                                  | Britalco, London                |
|                                 | British Oxygen Co., Ltd., Elverton St., S.W.                                            | Victoria 4706                                  | Brins Oxygen, London            |
|                                 | British Reinforced Concrete Engineering Co., Ltd., 1, Dickinson St., Manchester         | City 8430                                      | Astragal, Manchester            |
|                                 | British Steam Specialties, Ltd., Bedford St., Leicester                                 | Central 1085                                   | Boss, Leicester                 |
|                                 | British Thermit Co., Ltd., 49 & 51, The Albany, Liverpool                               | Central 1680                                   | Thermal, Liverpool              |
| 4                               | British Thomson-Houston Co., Ltd., Rugby                                                | 54                                             | Asteroidal, Rugby               |

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6 Private. 16 Western Union. 20 McNeill's. 33 Bentley's.

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|----------------------------------------------------------------------------------------------|--------------------------------|------------------------------|
| British Vacuum Cleaner Co., Ltd., Parson's Green Lane, S.W. . . . .                          | { Putney 2470<br>Two Lines }   | Vacuummer, Walgreen, London  |
| British Westinghouse Electric & Manufacturing Co., Ltd., 2, Norfolk St., W.C. . . . .        | Gerrard 3261                   | Multiphase, London           |
| British Westinghouse Electric & Manufacturing Co., Ltd., Trafford Park, Manchester . . . . . | Trafford Park 190-7            | Westinghouse, Manchester     |
| 1 2 4 Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield . . . . .                     | { Four Lines<br>1581 }         | Broadbent, Huddersfield      |
| 1 Bromell Patents Co., Ltd., 62, Robertson St., Glasgow . . . . .                            | Central 729                    | Ingenuity, Glasgow           |
| 1 6 Brook B., Ltd., Colne Rd., Huddersfield . . . . .                                        | 606                            | Phase, Huddersfield          |
| 1 4 Brooke Tool Manufacturing Co., Ltd., Belgrave Rd., Birmingham . . . . .                  | Midland 960                    | Saws, Birmingham             |
| Brookes & Adams, 250-252, Barr St., Hockley, Birmingham . . . . .                            | North 23                       | Teleba, Birmingham           |
| Broom & Wade, Ltd., High Wycombe . . . . .                                                   | 93                             | Broom, High Wycombe          |
| 1 Brotherhood Peter, Ltd., 53, Parliament St., S.W. . . . .                                  | Victoria 4683                  | Brotherhood, Parl., London   |
| 1 16 Brotherton & Co., Ltd., City Chambers, Leeds . . . . .                                  | Central 1606                   | Brotherton, Leeds            |
| Broughton Copper Co., Ltd., 6, Broad St. Place, E.C. . . . .                                 | Central 6589                   | Copper Co., London           |
| Broughton Copper Co., Ltd., Manchester . . . . .                                             | Central 6907                   | Copper Co., Manchester       |
| 1 3 4 Brownell, Lindley & Co., Ltd., Patricroft, Manchester . . . . .                        | Eccles 10 & 83                 | Sandon, Patricroft           |
| 1 4 Brown David, & Sons (Huddersfield), Ltd., Park Works, Lockwood, Huddersfield . . . . .   | { 1060<br>Three Lines }        | Gearing, Huddersfield        |
| 2 3 4 15 Brown Holsting Machinery Co., Cleveland, Ohio, U.S.A. . . . .                       | —                              | Brownholst, Cleveland, U.S.A |
| Brown, Lenox & Co. (London), Ltd., Millwall, B. . . . .                                      | East 262 & 351                 | Lenox, Millwall              |
| Brown John, & Co., Ltd., Sheffield . . . . .                                                 | Central 29                     | Atlas, Sheffield             |
| 5 Brown W. B., & Co. (Bankhall), Ltd., Bankhall, Liverpool [Bootle 213 & 445                 |                                | Vires, Liverpool             |
| 1 Brundrit Joseph, 14, Water St., Liverpool . . . . .                                        | Central 439                    | Segment, Liverpool           |
| Bucyrus Co., 13, Victoria Street, Westminster, S.W. . . . .                                  | { Victoria 4340<br>Two Lines } | Westcelite, London           |
| Buhning's Patent Water Pumping Co., 60, Wilson St., E.C. . . . .                             | London Wall 1947               | Aquapurco, Fin, London       |
| Bullivant & Co., Ltd., 72, Mark Lane, E.C. . . . .                                           | { Avenue 2108<br>Three Lines } | Bullivants, London           |
| Bull's Metal & Melloid Co., Ltd., Yoker, nr. Glasgow . . . . .                               | Clydebank 182                  | Mellold, Yoker               |
| 1 2 Burnet Lindsay, & Co., Moor Park Boiler Works, Govan, Glasgow . . . . .                  | Govan 453                      | Burnet, Glasgow              |
| 1 16 Burys & Co., Ltd., Sheffield . . . . .                                                  | Central 4                      | Burys, Sheffield             |
| 1 4 Butler J., & Co., Victoria Ironworks, Halifax, Eng. . . . .                              | 1013                           | Butler, Halifax, England     |
| 1 Butler Jones (Nameplates), Ltd., Dartmouth Works, Forest Hill, S.E.23 . . . . .            | Sydenham 946                   | Bronplat, Forest, London     |
| 1 16 Butterley Co., Ltd., Derby . . . . .                                                    | Ripley 6                       | Ironworks, Butterley         |
| Butterworth Bros., Ltd., Newton Heath Glass Wks., Manchester . . . . .                       | Fallsforth 23                  | Glasses, Newton Heath        |
| CaIRD & Rayner, 777, Commercial Rd., Limehouse, B. . . . .                                   | East. 210                      | Vaporise, London             |
| 1 Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St., Glasgow . . . . .       | Central 1434                   | Indicator, Glasgow           |
| 1 16 Cambridge Scientific Instrument Co., Ltd., Cambridge . . . . .                          | { Camba. 642<br>Two Lines }    | Instrument, Cambridge        |
| 1 Cameron John, Ltd., Oldfield Rd. Ironworks, Salford . . . . .                              | Central 2902                   | Original, Manchester         |
| 1 2 Cammell Laird & Co., Ltd., Cyclops Steel & Ironwks, Sheffield . . . . .                  | Central 3800                   | Cammellaird, Sheffield       |
| 1 3 Campbell & Calderwood, Soho Works, Paisley, Scotland . . . . .                           | 2754                           | Soho, Paisley                |
| 1 3 4 6 Campbell Gas Engine Co., Ltd., Halifax, England . . . . .                            | 93                             | Cargas, Halifax              |
| Campbells & Hunter, Ltd., Dolphin Foundry, Leeds . . . . .                                   | Central 768                    | Dolphin, Leeds               |

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6 Private. 15 Atlantic Cable. 16 Western Union.

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|---------------------------------|------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------|
| 1 4 16                          | Canadian-American Machinery Co., Ltd., 8, Bouverie St., E.C. 4                           | Central 6926                     | Prodigious, Fleet, London                    |
| 1                               | Canning W., & Co., Lustre Works, Birmingham                                              | Central 3622                     | Materials, Birmingham                        |
| 1                               | Cape Asbestos Company, Ltd., 23, King St., E.C.                                          | City 2666                        | Incorrupt, Cent., London                     |
| 1 6                             | Carruthers J. H., & Co., Ltd., Polmadie Ironwks., Glasgow [Queens Park 36                |                                  | Holsting, Glasgow                            |
|                                 | Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs.                        | Bootle 1170                      | Chadburn, Liverpool                          |
| 1                               | Chambers, Scott & Co., Ltd., Motherwell                                                  | 63                               | Energy, Motherwell                           |
|                                 | Chaplin Alex., & Co., Ltd., Govan, Glasgow                                               | Govan 154                        | Chaplin, Glasgow                             |
|                                 | Chapman & Hall, Ltd., 11, Henrietta St., W.C.                                            | Gerrard 2711                     | Pickwick, Rand, London                       |
| 1                               | Chatwin Thos., Ltd., Great Tindal St., Birmingham                                        | Midland 1790                     | Chatwin, Birmingham                          |
| 1 4                             | Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, B.C.                       | London Wall 6806<br>Central 2974 | Opedoloe, London                             |
| 1 2 3 4 6                       | Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne                                           | Central 1070 & 1073<br>City 137  | Cyclops, Gateshead                           |
| 13 16 24                        | Clay Cross Co., Ltd., Clay Cross, near Chesterfield                                      | 479                              | Jackson, Clay Cross                          |
|                                 | Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds                                 | 542 & 543                        | Gas, Leeds                                   |
| 1 16                            | Cleveland Bridge & Engineering Co., Ltd., Darlington                                     | 2710                             | Cleveland, Darlington                        |
|                                 | Clifton & Waddell, Johnstone, near Glasgow                                               | 33                               | Cliffell, Johnstone                          |
|                                 | Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow                 | Hillhead 2952                    | Corrugated, Glasgow                          |
| 4 6                             | Coats Machine Tool Company, Ltd., Palace Chambers, Bridge Street, Westminster, S.W.      | Victoria 7640<br>Two Lines       | Colcomachi, Vic., London                     |
| 1                               | Cochran & Co. (Annan), Ltd., Annan, N.B.                                                 | 3                                | Multitube, Annan                             |
|                                 | Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                                    | [Govan 361<br>[Bank 4909         | Cockburn, Glasgow<br>Satisfactory, Liverpool |
| 1 6                             | Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                                     | Bradford 4744                    | Cole, Bradford                               |
| 1 2 3 4 16                      | Cole, Marchant & Morley, Ltd., Bradford                                                  | Derby 1266                       | Coles, Derby                                 |
|                                 | Coles H. J., Ltd., London Crane Works, Derby                                             | 51                               | Rollers, Loughborough                        |
| 1                               | Coltman Walter W., & Co., Ltd., Central Boiler Wks., Loughborough                        | Regent 297                       | Integral, Westcent, London                   |
| 6 16                            | Columbia Steel & Engineering Co., Ltd., Regent House, Kingsway, W.C.                     | Regent 297                       |                                              |
| 1 10                            | Colville David, & Sons, Ltd., Dalsell Steel & Iron Works, Motherwell, near Glasgow       | Motherwell 9                     | Colville, Motherwell                         |
| 1 10                            | Colville David, & Sons, Ltd., 54, Old Broad St., B.C.                                    | London Wall 1469                 | Colville, London                             |
| 4                               | Commercial Cars, Ltd., Luton                                                             | Luton 192                        | Kemerkers, Luton                             |
| 1                               | Consolidated Brake & Engineering Co., Ltd., 41, Moorfields, E.C.                         | London Wall 2710                 | Vacuo, Ave, London                           |
| 4                               | Consolidated Pneumatic Tool Co., Ltd., Palace Chambers, 9, Bridge St., Westminster, S.W. | Gerrard 9215<br>Three Lines      | Caulking, Parl., London                      |
|                                 | Constable A., & Co., Ltd., 10, Orange St., Leicester Sq., W.C.                           | [Central 12432                   | Dhagoba, Westrand, London                    |
| 35                              | Consulting Patent Agency, 253, Gray's Inn Rd., W.C.                                      | [Holborn 6109                    | Cepators, Kinross, London                    |
|                                 | Conveyor & Elevator Co., Accrington, Lancashire                                          | 2779                             | Conveyor, Accrington                         |
|                                 | Cooke James, & Son, 8 & 9, Wrentham Street, Birmingham                                   | Mid. 1611                        | Horelogy, Birmingham                         |
|                                 | Cooke William, & Co., Ltd., Tinsley Steel, Iron and Wire Rope Works, Sheffield           | Central 3213                     | Cooke, Sheffield                             |
| 4                               | Cornforth Ernest B., Stoke-on-Trent                                                      | Central 34                       | Cornforth, Stoke-on-Trent                    |
|                                 | Cottam Edwin, & Co., Ltd., Don Spring Works, Rotherham                                   | 279                              | Springs, Rotherham                           |
|                                 | Cottam Edwin, & Co., Ltd., Don Steel Foundry, Rotherham                                  | 534                              | Solidity, Rotherham                          |
|                                 | Cosland A., & Son, 3, Mitchell St., Glasgow                                              | City 7532<br>Two Lines           | Screened, Glasgow                            |
| 1 4 16                          | Coventry Chain Co., Ltd., Coventry                                                       | 890<br>1201                      | Chains, Coventry                             |
| 1 33                            | Coventry Ordnance Works, Ltd., Ordnance Works, Coventry                                  | Five Lines                       | Ordnance, Coventry                           |

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|-----------------------------------------------------------------------------------------------------|---------------------------------------|------------------------------|
| Covington Machine Co., Covington, Virginia, U.S.A. ..                                               | Rector 8494                           | 14, Wall St., New York       |
| 1 2 Cowans, Sheldon & Co., Ltd., Carlisle .. ..                                                     | .. 13                                 | St. Nicholas, Carlisle       |
| Cowper-Coles Manufacturing Co., Sunbury-on-Thames ..                                                | .. Sunbury 37                         | —                            |
| Craddock Geo., & Co., Ltd., Wire Rope Works, Wakefield ..                                           | .. Central 466                        | Craddock, Wakefield          |
| Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B. ..                                              | .. 15                                 | Craig-Donald, Johnstone      |
| 1 Cranes (Birmingham), Ltd., 183, Moseley St., Birmingham ..                                        | Midland 450                           | Peronatal, Birmingham        |
| Craven Brothers (Manchester), Ltd., Vauxhall Works, Reddish, Stockport .. ..                        | .. Heaton Moor 251                    | Craven, Reddish              |
| 1 Cresswells' Ltd., Wellington Mills, Bradford .. ..                                                | .. 350                                | Asbestos, Bradford           |
| Crittall Steel Furniture Co., Ltd., 11 & 12, Finsbury Sq., E.C.2                                    | Central 6932                          | Crittance, Finsquare, London |
| 1 3 4 33 Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorks. ..                                   | { 4901<br>Four Lines }                | Crofters, Bradford           |
| Crosby Valve & Engineering Co., Ltd., 147, Queen Victoria St., E.C. .. ..                           | Central 7123                          | Crosby, London               |
| 2 3 4 16 Cromley Bros., Ltd., Openshaw, Manchester .. ..                                            | { City 4200<br>Five Lines }           | Otto, Manchester             |
| 1 Crowther Henry, & Sons, Ltd., Cleckheaton, Yorkshire ..                                           | .. 43                                 | Henry Crowther, Cleckheaton  |
| 1 4 16 Curtis & Curtis Co., 77, Garden St., Bridgeport, Conn. ..                                    | Barnum 466                            | Curtis, Bridgeport, Conn.    |
| Custodis Limited, 119, Victoria St., Westminster, S.W.                                              | [Victoria 779                         | Custodimus-Sewest, London    |
| 1 Dalglish A. & W., West of Scotland Boiler Works, Pollokshaws, Glasgow .. ..                       | { Pollokshaws 141<br>Queen Park 261 } | Evaporate, Pollokshaws       |
| 1 4 6 16 Dalton Machine Co., Inc., 1911, Park Av., New York, U.S.A. ..                              | Harlem 3678                           | Alcedal, New York            |
| 1 Danell S. A., Ltd., Edward St., Parade, Birmingham ..                                             | { Central 5045<br>Two Lines }         | Danell, Birmingham           |
| 1 Daniels T. H. & J., Ltd., Stroud, Glos. .. ..                                                     | .. Stroud 42                          | Daniels, Stroud              |
| 1 Danks H. & T., (Netherton), Ltd., Netherton, Dudley ..                                            | .. Cradley 25                         | Danks, Netherton, Dudley     |
| Darling & Sellers, Ltd., Keighley .. ..                                                             | .. 38                                 | Darling Sellers, Keighley    |
| 1 Davenport Engineering Co., Ltd., Harris Street, Bradford ..                                       | [Bradford 3553                        | Humidity, Bradford           |
| 2 3 5 6 Davey, Faxman & Co., Ltd., Standard Ironworks, Colchester ..                                | .. 52                                 | Faxman, Colchester           |
| 2 3 5 6 Davey, Faxman & Co., Ltd., 78, Queen Victoria St., E.C. ..                                  | .. Bank 697                           | Faxman, London               |
| 3 4 16 Davidson & Co., Ltd., Sirocco Engineering Works, Belfast Ulster District, N. T. Co., Ltd. .. | .. 337                                | Sirocco, Belfast             |
| Davies & Metcalfe, Ltd., Romley, Manchester .. ..                                                   | Stockport 219                         | Exhaust, Romley              |
| Davis E. J., Great Eastern Rd., Stratford, E. .. ..                                                 | .. East 1350                          | Rapidising, London           |
| Davis Furnace Co., 54, Rathbone Place, W.1 .. ..                                                    | .. Museum 3050                        | Begasse, Ox., London         |
| 1 Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh ..                                           | .. Leith 634                          | Etna, Leith                  |
| 1 16 Dary Brothers, Ltd., Sheffield .. ..                                                           | .. 44, 2423, 2418                     | Motor, Sheffield             |
| Dawson & Downie, Ltd., Elgin Wks., Clydebank, Scotland ..                                           | [Clydebank 76                         | Pumps, Clydebank             |
| Day, Summers & Co., Ltd., Northam Ironworks, Southampton ..                                         | .. 48                                 | Day Summers, Southampton     |
| 1 Delta Metal Co., Ltd., East Greenwich, S.E. .. ..                                                 | .. Greenwich 123                      | Delta, Eastgreen., London    |
| 1 Delta Metal Co., Ltd., Dartmouth St., Birmingham ..                                               | { Central 3206<br>Five Lines }        | Extrusion, Birmingham        |
| Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow ..                                          | Argyle 505                            | Dempster, Glasgow            |
| 4 Denison Saml., & Son, Ltd., Far Hunslet, Leeds, S. ..                                             | { 1516<br>Two Lines }                 | Welch, Leeds                 |
| Dennystown Forge Co., Dumbarton .. ..                                                               | .. 56                                 | Forge, Dumbarton             |
| 4 Dick, Kerr & Co., Ltd., Abchurch Yard, Cannon St., E.C. ..                                        | [Bank 5966                            | Dicker, London               |
| 1 Dickinson Machine Tool Co., Ltd., Devonshire Works, Keighley .. ..                                | .. Keighley 319                       | Ordnance, Keighley           |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private.  
16 Western Union. 33 Bentley's.



## NAME AND ADDRESS OF ADVERTISER.

TELEPHONE  
NUMBER.

## TELEGRAPHIC ADDRESS.

|                                                                                                                                  |                                                                                                          |                                 |                                     |
|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------|
| 1 6                                                                                                                              | Dixon's White, Ltd., Albion Wharf, Bow, E. ..                                                            | .. .. East 1246                 | Dryolene, Bochurch, London          |
|                                                                                                                                  | Dobbie, McInnes, Ltd., 57, Rothwell St., Glasgow ..                                                      | { Argyle 1543<br>Bank 8529 }    | Compass, Glasgow                    |
| 2 3                                                                                                                              | Donkin Co., Ltd. (The Bryan), Chesterfield ..                                                            | .. .. 84                        | Donkin, Chesterfield                |
| 1 4 16                                                                                                                           | Dorman W. H. & Co., Limited, Stafford ..                                                                 | .. .. Stafford 125              | Dorman, Stafford                    |
| 1 2 3 20                                                                                                                         | Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B. ..                                             | .. .. 105                       | Douglas, Kirkcaldy                  |
| 1                                                                                                                                | Douglas Lawson & Co., Birstall, near Leeds ..                                                            | .. .. Batley 133                | Fulleys, Birstall                   |
|                                                                                                                                  | Dowson & Mason Gas Plant Co., Ltd., 39, Victoria St., S.W. (Victoria) ..                                 | .. .. 29                        | Gaseous, London                     |
|                                                                                                                                  | Dowson & Mason Gas Plant Co., Ltd., Manchester ..                                                        | .. Heaton Moor 39               | Gasify, Levenshulme                 |
|                                                                                                                                  | Drake & Gorham, Ltd., 1, Felix St., Westminster<br>Bridge Rd., S.E.1 ..                                  | .. .. Victoria 4893-4-5         | Accumulator, Sowest, London         |
| 1                                                                                                                                | Drum Engineering Co., 33, Brook St., Bradford ..                                                         | .. .. 2358                      | Drum, Bradford                      |
| 1                                                                                                                                | Drummond Brothers, Ltd., Engel Works, near Guildford ..                                                  | .. .. 153                       | Lathes, Stoughton                   |
| 1 3 4                                                                                                                            | Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow ..                                                | { Glasgow 111<br>Two Lines }    | Bonaccord, Glasgow                  |
|                                                                                                                                  | Dublin Dockyard Co., Ltd., North Wall, Dublin ..                                                         | .. .. 23 & 24                   | Dockyard, Dublin                    |
|                                                                                                                                  | Dudbridge Iron Works, Ltd., Dudbridge, near Stroud ..                                                    | .. .. Stroud 7                  | Humphidge, Calnescross              |
| 1 4                                                                                                                              | Dunford & Elliott (Sheffield), Ltd., Attercliffe Wharf, Sheffield<br>Central, Sheffield 1165, 2821, 1713 | .. .. 1165, 2821, 1713          | Blooms, Sheffield                   |
| 1 4 33                                                                                                                           | Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham ..                                          | .. .. East 920                  | Covers, Birmingham                  |
|                                                                                                                                  |                                                                                                          |                                 |                                     |
|                                                                                                                                  | East Ferry Road Eng. Works Co., Ltd., Millwall, B. ..                                                    | .. .. East 212                  | Hydrostatic, London                 |
|                                                                                                                                  | Edison Accumulators, Ltd., 2 & 3, Duke St., S.W.1 ..                                                     | .. .. Regent 5470               | Edibatt, St. James, London          |
| 1                                                                                                                                | Edmondson Archibald, & Sons, Ltd., Patricroft, nr. Manchester [Central] ..                               | .. .. 3266                      | Edmondson, Patricroft               |
| 1                                                                                                                                | Electric & Ordnance Accessories Co., Ltd., Aston, Birmingham ..                                          | .. .. East 340                  | E.O.A., Birmingham                  |
|                                                                                                                                  | Electric Control, Ltd., Bridgeton, Glasgow ..                                                            | .. .. Bridgeton 2847            | Control, Glasgow                    |
| 1                                                                                                                                | Electro-Mechanical Brake Co., Ltd., Eagle Works, West<br>Bromwich ..                                     | .. .. West Bromwich 291         | Brakes, West Bromwich               |
| 1 16                                                                                                                             | Electro-Metals, Ltd., Imperial Buildings, 56, Kingsway,<br>W.C. ..                                       | { Holborn 6470<br>Three Lines } | Processes, Estrand, London          |
| 1                                                                                                                                | Electrometers, Ltd., Openshaw, Manchester ..                                                             | .. .. Central 7094              | Magnet, Manchester                  |
| 1                                                                                                                                | Electrometers, Ltd., 49, Queen Victoria St., E.C. ..                                                     | .. .. City 5370                 | Orders, Cannon, London              |
|                                                                                                                                  | Elliot George, & Co., Ltd., 16, Great George St., S.W. ..                                                | .. .. Victoria 897              | Elliot Company, London              |
|                                                                                                                                  | Elliot George, & Co., Ltd., Cardiff ..                                                                   | .. .. 175                       | Elliot Company, Cardiff             |
|                                                                                                                                  | Ellison George, Wellhead Lane Works, Perry Barr, Birmingham<br>Northern 740                              | .. .. Northern 740              | Induction, Birmingham               |
|                                                                                                                                  | Ellison W. T., & Co., Ltd., Irlams-o'-th'-Height, Man-<br>chester ..                                     | .. .. Pendleton 30              | Ellisons Ltd., Irlams-o'-th'-Height |
| 1 16                                                                                                                             | "Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.<br>Gerrard 3643 & 8596                           | .. .. Gerrard 3643 & 8596       | Engineering, Westrand, London       |
|                                                                                                                                  | Engineering Timber Co., Ltd., 11, Victoria St., S.W. ..                                                  | .. .. Victoria 5073 & 4210      | Entikosil, Vic, London              |
| 1                                                                                                                                | Engineering Supplies, Ltd., 28, Victoria St., S.W. ..                                                    | .. .. Victoria 7833             | Proelis, London                     |
|                                                                                                                                  | Enterprise Engineering Co., 19, Bright St., Aston, Birmingham ..                                         | .. .. —                         |                                     |
| 1 6                                                                                                                              | Entwistle & Cass, Ltd., Bolton ..                                                                        | { Bolton 1399<br>Two Lines }    | Foundry, Bolton                     |
| 1 4 16                                                                                                                           | Eicher, Wynn & Co., 109, Victoria St., S.W. ..                                                           | .. .. Victoria 1454             | Eswynco, Sowest, London             |
|                                                                                                                                  | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton ..                                             | .. .. 39                        | Evans, Wolverhampton                |
|                                                                                                                                  | Expanded Metal Co., Ltd., York Mansions, York St.,<br>Westminster, S.W. ..                               | { Victoria 8869<br>Two Lines }  | Distend, Vic., London               |
|                                                                                                                                  |                                                                                                          |                                 |                                     |
| Telegraphic Codes in use: 1 A B C. 2 A I. 3 Engineering. 4 Lieber's. 6 Private.<br>16 Western Union. 20 McNeill's. 33 Bentley's. |                                                                                                          |                                 |                                     |



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|--------------------------------------------------------------------------------|-------------------------------------|--------------------------------|----------------------|
| Fairley James, & Sons, Ltd., Old Mint, Shadwell St., Birmingham                | 253                                 | Fairley, Birmingham            |                      |
| 1 2 Fawcett, Preston & Co., Ltd., Liverpool                                    | .. Royal 1773, 2664                 | Fawcett, Liverpool             |                      |
| 1 Ferguson Brothers (Port Glasgow), Ltd., Port-Glasgow                         | ..                                  | 26 Dredger, Port-Glasgow       |                      |
| 1 Fielding & Platt, Ltd., Atlas Works, Gloucester                              | ..                                  | 58 Atlas, Gloucester           |                      |
| File Forge Co., Ltd., Kirkcaldy, Scotland                                      | ..                                  | 16 File Forge, Kirkcaldy       |                      |
| 1 29 Figeo Ltd., Haarlem, Holland                                              | ..                                  | — Figeo-Haarlem                |                      |
| Findlay Alex., & Co., Ltd., Motherwell, near Glasgow                           | .. {Motherwell 19 Two Lines}        | Findlay, Motherwell            |                      |
| 4 16 Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield                       | .. Central 3230                     | Firth, Sheffield               |                      |
| Firth Thos., & Sons, Ltd., 8, The Sanctuary, S.W.                              | ..                                  | Gerrard 5631 Mesmerick, London |                      |
| Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow                       | .. Argyle 51                        | Firno, Glasgow                 |                      |
| Fleming & Ferguson, Ltd., Paisley, near Glasgow                                | ..                                  | 18 Phoenix, Paisley            |                      |
| 1 2 3 4 16 Fletcher George, & Co., Ltd., Litchurch, Derby                      | .. {Derby 817 Two Lines}            | Amarilla, Derby                |                      |
| Fletcher, Russell & Co., Ltd., 15, Fisher St., Southampton Row, W.C.           | .. Holborn 5116                     | Gaserics, Westcent, London     |                      |
| 1 16 Flower J. W., & Co., Eclipse Works, Wimborne, Dorset                      | {Wimborne 28}                       | Flower, Wimborne               |                      |
| Foster Brothers, Ltd., Wednesbury                                              | ..                                  | 9 Foster, Wednesbury           |                      |
| Foster G., Changeate, Keighley                                                 | ..                                  | 42X                            |                      |
| 1 Foster Instrument Co., Letchworth, Herts.                                    | .. Letchworth 26                    | Foster Instrument, Letchworth  |                      |
| 1 2 5 Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.                  | .. City 6508                        | Steamplow, London              |                      |
| 1 2 5 Fowler John, & Co. (Leeds), Ltd., Steam Plough Wks, Leeds                | .. Central 513                      | Fowler, Leeds                  |                      |
| France & Morgan, Whitefield Brass Wks., Govan, Glasgow                         | .. Govan 469                        | France, Glasgow                |                      |
| 1 5 16 24 Fraser & Chalmers, Ltd., Moorgate Hall, Finsbury Pavement, E.C. 2    | .. {London Wall 1024-5 Central 351} | Vanner, Ave., London           |                      |
| Friedenthal, Ltd., River Engine Works, Preston                                 | ..                                  | 255 Screw, Preston             |                      |
| Fuller, Horsey, Sons & Cassell, 11, Billiter Sq., E.C.                         | .. City 249                         | Fuller Horsey, London          |                      |
| Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley   | ..                                  | 63 Vulcan, Paisley             |                      |
| 3 3 4 Galloways, Ltd., Manchester                                              | .. Central 6312-3-4                 | Galloway, Manchester           |                      |
| 1 3 Gardner L., & Sons, Ltd., Barton Hall Engine Works, Patricroft, Manchester | .. {Eccles 401 Four Lines}          | Theorem, Patricroft            |                      |
| 1 Garrett R., & Sons, Ltd., Leiston Works, Suffolk                             | ..                                  | 16 Garrett, Leiston            |                      |
| 1 Garsherrle Engineering & Forge Co., 50, Wellington St., Glasgow              | .. Central 2556                     | Forgings, Glasgow              |                      |
| 1 Gas Lighting Improvement Co., Ltd., Salisbury House, London Wall, E.C.       | .. London Wall 4451                 | Carburine, Avenue, London      |                      |
| 1 Gelpel Wm., & Co., Vulcan Works, St. Thomas St., S.B.                        | .. {Hop 594 Three Lines}            | Patella, London                |                      |
| Gibbins R. C., & Co., Berkley St., Birmingham                                  | .. Midland 244                      | Gibbins, Birmingham            |                      |
| Gibbons Bros., Ltd., Dibdale Works, Dudley, Worc.                              | .. {Dudley 10 Two Lines}            | Gibbons, Lower-Cornal          |                      |
| Gilman Frank, 62, Lightwoods Hill, Birmingham                                  | .. Edgbaston 1081                   | Gilman, Lightwoods, Birmingham |                      |
| 4 Glacier Anti-Friction Metal Co., Ltd., Waldo Rd., Willesden Junction, N.W.   | .. Willesden 1882                   | Beaucoup, Kensal, London       |                      |
| Glasgow Iron & Steel Co., Ltd., Wishaw Iron and Steel Works, Wishaw            | .. {Wishaw 2 Central 99}            | Ingot, Wishaw                  |                      |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.  
16 Western Union. 24 Broomhall's. 29 Mercury.

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|          |                                                                             |                                            |                               |
|----------|-----------------------------------------------------------------------------|--------------------------------------------|-------------------------------|
|          | Glasgow Railway Engineering Co., Ltd., Govan, Glasgow                       | .. Govan 53                                | Expansion, Glasgow            |
| 2        | Glenfield & Kennedy, Ltd., Kilmarnock, N.B.                                 | .. .. 28                                   | Glenfield, Kilmarnock         |
| 1 4      | Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W. [Victoria 2671 | .. .. 2671                                 | Pneumatoid, London            |
| 1 4      | Glover W. T., & Co., Ltd., Trafford Pk., Manchester                         | { Manchester 7200<br>Six Lines             | Cables, Manchester            |
|          | Goodall, Clayton & Co., Ltd., Hunslet (Pepper Rd.), Leeds                   | .. Leeds 1982                              | Vertical, Leeds               |
| 1        | Grafton & Co., Bedford                                                      | .. .. —                                    | Grafton, Bedford              |
| 1        | Grafton & Co., 120, Cannon St., E.C.                                        | .. .. —                                    | Graftonian, London            |
| 4        | Graham Manufacturing Co., Providence, Rhode Island                          | Union 2974-R                               | Maharg, Providence            |
|          | Grantham Boiler & Crank Co., Ltd., Grantham                                 | .. .. —                                    | Land Grantham                 |
| 16       | Graphite Products, Ltd., 218-220, Queen's Rd., Battersea, S.W.              | .. Battersea 237                           | Lustroso, London              |
|          | Greaves, Bull & Lakin, Ltd., 9, Grove Road Bridge, Marylebone, N.W.         | .. .. Paddington 138                       | Lias, London                  |
|          | Greaves, Bull & Lakin, Ltd., Harbury, Leamington                            | .. Midland 274                             | Greaves, Harbury              |
| 1        | Green & Boulding, Ltd., 28, New Bridge St., B.C.                            | .. Central 12453                           | Temperature, London           |
| 1        | Gresham & Craven, Ltd., Salford, Manchester                                 | .. .. 613                                  | Brake, Manchester             |
|          | Grice, Grice & Son, Ltd., Sheepcote St., Birmingham                         | .. Midland 23                              | Grice, Birmingham             |
|          | Grieve John, & Co., Motherwell, Scotland                                    | .. .. 56                                   | Grieve, Motherwell            |
|          | Griffin Charles, & Co., Ltd., Exeter St., Strand, W.C.                      | .. City 1634                               | Explanatus, London            |
|          | Grover & Co., Ltd., Carpenter's Rd., Stratford, E.                          | { Stratford 984 & 985<br>Two Lines         | Adopted, Strat., London       |
|          | Guest & Chrimes, Rotherham                                                  | .. .. 205                                  | Guest, Rotherham              |
|          | Gulbert-Martin, 9, Edmund Place, Aldersgate, E.C.                           | .. Central 3799                            | Photophore, London            |
| 1        | Gunther W., & Sons, Central Works, Oldham                                   | .. .. 317                                  | Gunther, Oldham               |
| 2 4 6 16 | Gutta Percha & Rubber, Ltd., Toronto, Canada                                | .. .. —                                    | Guttaperch, Toronto           |
| 1 2 5    | Gwynnes, Ltd., Hammersmith Ironworks, W.                                    | .. Hammersmith 9 & 34                      | Gwynne, London                |
|          | Haddon John & Co., Salisbury Sq., Fleet St., E.C.                           | { Central 8157<br>Three Lines              | Typify, Fleet, London         |
|          | Hadfields Limited, Hecla Works, Sheffield                                   | .. .. 750                                  | Hadfield, Sheffield           |
| 1 4 6    | Haighs (Oldham), Ltd., Globe Ironworks, Plane St., Oldham                   | { 1273<br>Two Lines                        | Haigh, Oldham                 |
|          | Halden J., & Co., Ltd., 8, Albert Square, Manchester                        | .. Heaton Moor 190                         | Halden, Manchester            |
|          | Hale Thos. L., Ltd., Walsall, Staffordshire                                 | .. Walsall 408                             | Hale, Founders, Walsall       |
|          | Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., Westminster, S.W.   | { Victoria 4780 & 4620<br>(Photo. Dept.) 8 | Inspect, London               |
| 2        | Hall J. & B., Ltd., 10, St. Swithin's Lane, E.C.                            | .. Bank 645 & 646                          | Hallford, London              |
| 1 2      | Hall J. & B., Ltd., Dartford, Kent                                          | .. Dartford 7 & 46                         | Hallford, Dartford            |
|          | Hall J. P., & Co., Ltd., Blackriding Ironworks, Werneth, Oldham             | { 300<br>Two Lines                         | Dynamo, Oldham                |
|          | Hall J. P., & Sons, Ltd., Peterborough                                      | .. .. 0159                                 | Hall, Engineers, Peterborough |
| 1 4      | Ham, Baker & Co., Ltd., Langley Green, Birmingham                           | .. Oldbury 87                              | Penstock, Langley, Wores,     |
| 1        | Hampton C. & J., Ltd., Attercliffe, Sheffield                               | .. Attercliffe 95                          | Vicos, Sheffield              |
| 1 6      | Hands John, & Sons, Ltd., Cardigan Works, Birmingham                        | .. Central 3233                            | Machinery, Birmingham         |
|          | Hannan & Buchanan, 75, Robertson St., Glasgow                               | .. .. 1899                                 |                               |
|          | Hardy & Padmore, Ltd., Worcester Foundry, Worcester                         | [Worcester 160                             | Quality, Worcester            |
| 1        | Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.        | .. Westminster 876                         | Windtight, London             |

Telegraphic Codes in use: 1 A B C. 2 A 1. 4 Lieber's. 5 Moreing's. 6 Private.  
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|-----------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------|
| 1 Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger Street West, Newcastle-on-Tyne .. .. . | Central 3230                      | Windlight, Newcastle-on-Tyne     |
| 1 Hart Thomas, Blackburn, England .. .. .                                                           | 10                                | Hart, Blackburn                  |
| 1 Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng. [Halifax 1238-9]                               |                                   | Bollers, Halifax                 |
| Hartnell Wilson, & Co., Ltd., Volt Wks., Kirkstall Rd., Leeds [Central 282]                         |                                   | Hartnell, Leeds                  |
| 2 4 Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow .. .. .                        | { X 565 }<br>1702-3               | Maccaie, Glasgow                 |
| Harvey G. A. & Co., (London), Ltd., Greenwich Metal Works, Woolwich Rd., S.E. .. .. .               | { Greenwich 20 }<br>Five Lines    | Cheaper, Char., London           |
| Harvey G. & A., Ltd., Govan, Glasgow .. .. .                                                        | Govan 72                          | Gandah, Glasgow                  |
| 1 Haslam Foundry & Engineering Co., Ltd., Derby .. .. .                                             | 778                               | Zero, Derby                      |
| 1 Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds .. .. .                                            | Central 524                       | Hathorn, Leeds                   |
| Haughton's Patent Metallic Packing Co., Ltd., 30, St. Mary-at-Hill, E.C. .. .. .                    | Avenue 5405                       | Haughton, Bilgate, London        |
| Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne .. .. .                                     | 1232                              | Locomotive, Newcastle            |
| 1 Hayes Edward, Watling Works, Stony Stratford, Wolverton .. .. .                                   | —                                 | Hayes, Stony Stratford           |
| 1 Hayes Edward, Palace Chambers, 9, Bridge St., S.W. .. .. .                                        | Victoria 1556                     | Seyah, London                    |
| 1 4 16 Hayward Co., The, Hudson Terminal Bldg., New York, U.S.A. .. .. .                            | —                                 | Thehayco, New York               |
| 16 Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C. .. .. .                                  | City 9626                         | Tylerox, Cent., London           |
| 4 Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-Tees .. .. .                         | { 22 }<br>G.P.O. 15               | Teesdale, Stockton-on-Tees       |
| Heap Joshua, & Co., Ltd., Ashton-under-Lyne .. .. .                                                 | 183                               | Heap, Limited, Ashton-under-Lyne |
| Heavy Stampings, Ltd., Middlesbrough .. .. .                                                        | 291                               | Stampings, Middlesbrough         |
| 1 5 Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester [Cent. 6260]                          |                                   | Spherical, Newton Heath          |
| 1 5 Heenan & Froude, Ltd., Worcester Eng. Works, Worcester .. .. .                                  | 391                               | Heenan, Worcester                |
| 1 5 Heenan & Froude, Ltd., 4, Chapel Walks, Manchester .. .. .                                      | City 5187                         | Heenan, Manchester               |
| Henderson & Glass, Liverpool .. .. .                                                                | Central 443 & 7495                | Vulcan, Liverpool                |
| Hendry James, Laminated Leather Works, Bridge-ton, Glasgow .. .. .                                  | { Bridgeton 1747 }<br>Three Lines | Laminated, Glasgow               |
| 1 4 6 Herbert Alfred, Ltd., Coventry .. .. .                                                        | 860 Six Lines                     | Lathe, Coventry                  |
| Herbert Froud Company, Ltd., Sovereign Mills, Chapel-en-le-Frith .. .. .                            | Chapel-en-le-Frith 19             | Friction, Chapel-en-le-Frith     |
| 1 Heywood S. H., & Co., Ltd., Reddish .. .. .                                                       | Heaton Moor 48                    | Cranes, Reddish                  |
| Hick, Hargreaves & Co., Ltd., Soho Works, Bolton .. .. .                                            | Bolton 1373-4                     | Hick, Bolton                     |
| Higginbottom & Manneck, Ltd., West Gorton, Manchester .. .. .                                       | 1577                              | Crown, Gortonbrook               |
| 1 Higgs Bros., Balsall Heath, Birmingham .. .. .                                                    | Midland 2148                      | Higbro, Birmingham               |
| 1 4 Hindley, E. S., & Sons, 11, Queen Victoria St., E.C. .. .. .                                    | City 9094                         | Steamport, London                |
| 1 Hingley & Lamb, Ltd., Stour Works, Lye, Stourbridge .. .. .                                       | Lye 50                            | Lamb, Lye                        |
| 1 2 3 5 Hobbell, Way & Co., 124-5, St. John's Hse., Minorities, B. .. .. .                          | Avenue 3810                       | Hobnalk, London                  |
| 1 4 16 Hoffmann Manufacturing Co., Ltd., Chelmsford .. .. .                                         | 151 Two Lines                     | Hoffmann, Chelmsford             |
| 11 Hogg-Carr Construction Co., Ltd., Akenside House, Newcastle-upon-Tyne .. .. .                    | Central 2226-8                    | Archegg, Newcastle               |
| Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire .. .. .                            | Bilston 11                        | Holcroft's, Bilston              |
| 1 Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham .. .. .                                     | East 160                          | Plungers, Birmingham             |
| 1 4 16 Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne .. .. .                                | [Central 809]                     | Holmes, Newcastle-on-Tyne        |
| 1 16 Holt & Willetts, Lion Works, Cradley Heath .. .. .                                             | Cradley 12                        | Holt, Willetts, Cradley Heath    |
| 4 Honeywill Bros., 79, Mark Lane, E.C. 3 .. .. .                                                    | Avenue 91                         | Tyche, Fenchurch, London         |
| 3 Hooper Edgar A. J., Ltd., 21-31, New Summer St., Birmingham .. .. .                               | Central 607                       | Brassware, Birmingham            |
| 3 4 16 Hopkinson J., & Co., Ltd., Huddersfield .. .. .                                              | Huddersfield 1269                 | Hopkinson, Huddersfield          |
| Horne Engineering Co., St. Peters Lane, Glasgow .. .. .                                             | Central 1204                      |                                  |

Telegraphic Codes in use : 1 A B C 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private.  
11 Scott's. 16 Western Union.

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|---------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|------------------------------|
| 1 2 3 6                         | Hornaby R., & Sons, Ltd., Spittlegate Ironworks, Grantham                             | 120                                    | Hornbys, Grantham            |
| 1 2 3 6                         | Hornaby R., & Sons, Ltd., 75a, Queen Victoria St., E.C.                               | .. City 49                             | Hornbys, London              |
| 1 3                             | Houston J. W., & Co., Partick Cross, Glasgow                                          | .. Western 2897                        | Shipplumb, Glasgow           |
| 4 16                            | Houston, Stanwood & Gamble Co., Cincinnati, U.S.A.                                    | .. South 138                           | Slidevale, Cincinnati        |
|                                 | Howden, James, & Co., Ltd., Scotland St., Glasgow                                     | { South 2970-1-2<br>Kinning Park 193 } | Howden, Glasgow              |
| 3                               | Howell & Co., Ltd., Brook Steel Works, Sheffield                                      | .. .. 48                               | Howell, Sheffield            |
|                                 | Hoyt Metal Co., Ltd., 26, Billiter St., E.C.3                                         | .. Central 3070                        | Profanity, London            |
|                                 | Hudson Thomas, Ltd., Sheepford Wks., Coatbridge, N.B.                                 | { Coatbridge 58                        | Hudson, Coatbridge           |
| 2                               | Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds                                  | .. .. 3340                             | Loco, Leeds                  |
|                                 | Hughes & Lancaster, Liverpool                                                         | .. .. 2034                             | Diagram, Liverpool           |
|                                 | Hughes & Lancaster, 16, Victoria St., S.W.                                            | .. Victoria 4772                       | Voldance, London             |
|                                 | Humphrey Pump Co., Ltd., 38, Victoria St., S.W.                                       | .. Victoria 360                        | Gaxenner, London             |
|                                 | Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.                                     | .. Victoria 609                        | Epistolary, Vic., London     |
| 1                               | Hunslet Engine Co., Ltd., Leeds                                                       | .. .. 3430 & 3434                      | Engine, Leeds                |
| 1 4 16 33                       | Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell            | .. .. 44                               | Nelson, Motherwell           |
| 4 6                             | Igranic Electric Co., Ltd., 147, Queen Victoria St., E.C.                             | Central 7123                           | Igranic, London              |
| 1 16                            | Imperial Light Limited, 123, Victoria St., S.W.                                       | { Victoria 3540<br>Two Lines }         | Edibrac, Sowest, London      |
|                                 | Imperial Motor Industries, Ltd., 11, Denmark St., Charing Cross Rd., W.C.             | .. Gerard 3347 & 3348                  | Giftedness, London           |
|                                 | Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham                     | .. .. Smethwick 46                     | Repeat, Birmingham           |
|                                 | India Rubber, Gutta Percha & Telegraph Works Co., Ltd., 106, Cannon St., E.C.         | { Bank 744<br>Four Lines }             | Silvergray, Cannon, London   |
| 1 2                             | India Rubber, Gutta Percha & Telegraph Works Co., Ltd., Silvertown, E.C.              | .. .. —                                | Graysilver, Silver, London   |
| 1 2 4                           | Ingersoll-Rand Co., 165, Queen Victoria St., E.C.                                     | { City 3853<br>Three Lines }           | Ingersoll, London            |
|                                 | International Machine Tool Co. (Inc.), 1514, Prospect Avenue, Cleveland, Ohio, U.S.A. | .. .. —                                | —                            |
|                                 | Ironite Co., Ltd., Old Queen St., Westminster, S.W. 1.                                | .. Victoria 3618                       | Thormotlvn, Vic., London     |
| 1 3                             | Jack Alexander, & Co., Whitegates Engineering Works, Motherwell, Scotland             | .. Motherwell 150                      | Crances, Motherwell          |
|                                 | Jackson Bolders, Ltd., 83, Kirkstall Rd., Leeds                                       | .. Central 3163                        | —                            |
| 1 16                            | Jacobs Manufacturing Co., Hartford, Conn., U.S.A.                                     | .. .. —                                | Jacobchuck, Hartford         |
|                                 | James T., & Co., Liverpool                                                            | .. Central 757                         | Iron, Liverpool              |
| 1 2 16                          | Jardine John, Dering St., Nottingham                                                  | .. .. 3295 & 3296                      | Jardine, Nottingham          |
| 1 4                             | Jenkins Bros., Ltd., St. Remi St. and Acorn Avenue, Montreal, Canada                  | .. .. —                                | Pipkin, Montreal             |
| 1                               | Jenkins Bros., Ltd., 95, Queen Victoria St., E.C.                                     | .. Bank 5920                           | Patapso, London              |
| 6                               | Jenkins R., & Co., Rotherham, Eng.                                                    | .. Rotherham 13                        | Jenkins, Rotherham           |
| 1 16                            | Jenkins, W. J., & Co., Ltd., Beehive Works, Retford, Notts.                           | .. Retford 44                          | Jenkins, Retford             |
| 1                               | Jennings C., & Co., Pennywell Rd., Bristol                                            | .. Bristol 4940-42                     | Stairs, Bristol              |
|                                 | Jennings Edward J., West Walls, Newcastle-on-Tyne                                     | { Central 4429                         | Potential, Newcastle-on-Tyne |
|                                 | Jensen & Son, 77, Chancery Lane, W.C.                                                 | .. Holborn 1249                        | Venture, London              |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER.                                                 | TELEPHONE NUMBER.           | TELEGRAPHIC ADDRESS.         |
|---------------------------------------------------------------------------------|-----------------------------|------------------------------|
| 1 Johnson Wm., & Sons (Leeds), Ltd., Castleton Foundry, Armley, Leeds .. .. .   | Armley 387                  | Kankstley, Armley            |
| Johnson W. F., & Co., 113, Clerkenwell Rd., E.C. .. .. .                        | —                           | —                            |
| Jones A. A., & Shipman, Ltd., East Park Rd., Leicester .. .. .                  | 2101<br>Three Lines         | Chuck, Leicester             |
| Jones & Lamson Machine Co., 109, Queen Victoria St., E.C. .. .. .               | Bank 824                    | Turretorum, London           |
| Judson-Jackson Co., Ltd., 50, Marsham St., Westminster, S.W. .. .. .            | Victoria 5000               | Ozonistic, London            |
| Maye & Co., Ltd., Southam Works, Rugby .. .. .                                  | Southam 2                   | Maye, Southam                |
| 1 Maye Jos., & Sons, Ltd., 93, High Holborn, W.C. .. .. .                       | Holborn 1847                | Lockman, London              |
| 1 Maye Jos., & Sons, Ltd., Lock Works, Leeds .. .. .                            | 586                         | Wedge, Leeds                 |
| 1 4 Mearns H. W., & Co., Ltd., Broadheath, near Manchester .. .. .              | Altrincham 221              | Mearns, Altrincham           |
| Keay B. C. & J., Ltd., Corporation St., Birmingham .. .. .                      | Central 420                 | Keay, Birmingham             |
| 1 4 Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C. .. .. .      | Holborn 6194<br>Five Lines  | James Keith, London          |
| 1 Melvin, Bottomley & Baird, Ltd., 16-20, Cambridge St., Glasgow .. .. .        | Douglas 2830<br>Three Lines | Meter, Glasgow               |
| Mennicott Water Softener Co., Ettingshall Works, Wolverhampton .. .. .          | —                           | Watertanks, Wolverhampton    |
| 1 16 Menrick & Jefferson, Ltd., Multigraph Works, West Bromwich .. .. .         | West Bromwich 1001          | Multigraph, West Bromwich    |
| 1 Meuyon Wm., & Sons, Ltd., Dukinfield, Manchester .. .. .                      | Ashton 494                  | Meuyon, Dukinfield           |
| Hermodes, Ltd., 35, The Temple, Dale St., Liverpool .. .. .                     | Central 6920                | Warmth, Liverpool            |
| 1 Kern & Co., Aarau, Switzerland .. .. .                                        | —                           | Kern, Aarau                  |
| 1 Kern & Co., Peninsular House, 28, Monument St., E.C. .. .. .                  | Central 10411               | Kernamat, London             |
| 2 Kerr, Stuart & Co., Ltd., 5, Broad St. Place, E.C. .. .. .                    | Central 13190               | Melks, London                |
| 1 2 Kerr, Stuart & Co., Ltd., Stoke-on-Trent .. .. .                            | 813                         | California, Stoke-on-Trent   |
| Kirby Banks Screw Co., Ltd., Leeds .. .. .                                      | Central 541                 | Hexagon, Leeds               |
| Kirk Wheatley, Price & Co., 46, Watling St., E.C. .. .. .                       | Bank 5077                   | Indices, London              |
| Kirk Wheatley Price & Co., Albert Sq., Manchester .. .. .                       | Central 3218                | Indicator, Manchester        |
| Kirkaldy, John, Ltd., 101, Leadenhall St., E.C. 3 .. .. .                       | Avenue 1223                 | Compactum, Led., London      |
| Kirkstall Forge Co., Ltd., Leeds .. .. .                                        | Central 147                 | Forge, Kirkstall             |
| 1 16 Klein Engineering Co. (1908), Ltd., 94, Market St., Manchester .. .. .     | 4070                        | Modernize, Manchester        |
| 1 16 Lanarkshire Steel Co., Ltd., Motherwell .. .. .                            | 7                           | Siemens, Motherwell          |
| 1 Lancaster & Tonge, Ltd., Pendleton, near Manchester .. .. .                   | City 4621                   | Pistons, Manchester          |
| 6 Lang John, & Sons, Lathe Makers, Johnstone, N.B. .. .. .                      | 12                          | Lang, Johnstone              |
| 1 2 Langdon-Davies Motor Co., 110, Cannon St., E.C. .. .. .                     | City 2744<br>Two Lines      | Damophon, London.            |
| 1 3 4 6 Lash Robert H., 29-31, Portugal St., W.C. .. .. .                       | Holborn 1531                | —                            |
| 1 Lea Recorder Co., Ltd., 28, Deansgate, Manchester .. .. .                     | City 5040                   | Recording, Manchester        |
| 1 6 Leathers Company (Altrincham), Limited, Altrincham, near Manchester .. .. . | Altrincham 830              | Leathers Company, Altrincham |
| Le Bas Edward, & Co., Dock House, Billiter St., E.C. .. .. .                    | Avenue 5463<br>Five Lines   | Gramercy, London             |

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16 Western Union.

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|---------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------|-------------------------------|
| Lewdard & Beckett, Ltd., Broadway Chambers, Westminster, S.W. |                                                                                         | Victoria 873                | Preferment, London            |
| 1 2 3 4                                                       | Leeds Forge Co., Ltd., Leeds                                                            | Five Lines 4380             | Vulpes, Leeds                 |
|                                                               | Leeds Tool & Manufacturing Co., Ltd., 121, Elland Rd., Leeds                            | 2612                        | Automatic, Leeds              |
| 1 2 6                                                         | Lees T. & R., Ltd., Hollinwood, near Manchester                                         | Fairsworth 16               | Lees, Hollinwood              |
|                                                               | Leroy F. & Co., 30, Gray St., Commercial Rd., B.                                        | Central 5955                | Efficiency, London            |
| 1 2                                                           | Lewis B. & Sons, Wolverhampton                                                          | 15                          | Lewis, Wolverhampton          |
| 1                                                             | Lewis & Tylor, Ltd., Cardiff                                                            | 3330                        | Belting, Cardiff              |
| 1                                                             | Library Press, Ltd., 26, Portugal St., W.C.2                                            | Holborn 1387                | —                             |
| 1 2 3 4 6                                                     | Lidgerwood Mfg. Co., Friars House, New Broad St., B.C.                                  | London Wall 7423            | Lidgerwood, London            |
| 1 4 16                                                        | Lilleshall Co., Ltd., Oakengates, Shropshire                                            | Oakengates 28               | Lilleshall, Oakengates        |
|                                                               | Lindsay R. B. & Co., 38, Mair St., Plantation, Glasgow                                  | Ibex 343                    | Conical, Glasgow              |
| 2 6 33                                                        | Lister R. A. & Co., Ltd., Dursley, Glos.                                                | Dursley 7                   | Machinery, Dursley            |
|                                                               | Liverpool Refrigeration Co., Ltd., Colonial House, Liverpool                            | Central 6897                | Polar, Liverpool              |
| 1 4                                                           | Lloyd, Richard, & Co., Galton Works, Steelhouse Lane, Birmingham                        | Central 7251-7254           | Cogs, Birmingham              |
|                                                               | Lobnitz & Co., Ltd., Renfrew, Scotland                                                  | Renfrew 4                   | Lobnitz, Renfrew              |
|                                                               | Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield                                     | Central 1376                | Piston, Sheffield             |
|                                                               | Lockwood Crosby & Son, 7, Stationer's Hall Court, E.C.                                  | Central 4421                | Crosby Lockwood, Cent, London |
|                                                               | Lodge Sparking Plug Co., Ltd., Wrentham St., Birmingham                                 | Midland 3300<br>Two Lines   | Igniter, Birmingham           |
|                                                               | London Aluminium Co., Ltd., Westwood Rd., Aston, Birmingham                             | East 497                    | Aluminium, Birmingham         |
|                                                               | London & Lancashire Fire Insurance Co., Ltd., 155, Leadenhall St., E.C.                 | Avenue 7070<br>Four Lines   | Polley, Led., London          |
|                                                               | Longmans, Green & Co., 39, Paternoster Row, B.C.                                        | City 3670<br>Two Lines      | Longmans, Cent., London       |
|                                                               | London Brothers, Ltd., 39, West Campbell St., Glasgow                                   | Argyle 553<br>Central 553   | Achilles, Glasgow             |
|                                                               | Low Archibald, & Sons, Ltd., 28A, Renfield St., Glasgow                                 | Central 35<br>Western 1793  | Highlow, Glasgow              |
| 1                                                             | Luke & Spencer, Ltd., Canal Eng. Works, Altrincham                                      | Altrincham 49               | Emery, Altrincham             |
| 1                                                             | Lumby Son & Wood, Ltd., Greetland, near Halifax                                         | Elland 123<br>Two Lines     | Lumby, Greetland              |
|                                                               | Lunken Company, Ltd., 35, Great Dover St., S.B.                                         | Hop 4487                    | Lunken, London                |
| 1 16                                                          | Lynn Chemical Engineering Co., Ltd., 40, Westminster Palace Gardens, Victoria St., S.W. | Victoria 7696               | Lynnicalia, Vic., London      |
| 1 2 4 25                                                      | Lysaght John, Ltd., St. Vincent Ironworks, Bristol                                      | 4720 & 4675                 | Lysaght, Bristol              |
| 1 2                                                           | McLachlan & Co., Ltd., Darlington                                                       | Darlington 2621             | Railway, Darlington           |
|                                                               | MacLaren Brothers, Ltd., 24, St. Vincent Place, Glasgow                                 | Central 5066                | —                             |
| 4                                                             | MacLellan P. & W., Ltd., Clutha Works, Glasgow                                          | Bell 8200                   | MacLellan, Glasgow            |
| 4                                                             | MacLellan P. & W., Ltd., 108A, Cannon St., B.C.                                         | City 2321                   | MacLellan, London             |
|                                                               | MacNab John, Mary St., Hyde                                                             | Hyde 78                     | Lathes, Hyde                  |
| 1                                                             | McGowan, Wild & Co., Hurst St., Birmingham                                              | Midland 1816                | Logic, Birmingham             |
| 1 4                                                           | McKechnie Brothers, Ltd., Rotton Park St., Birmingham                                   | Edgbaston 381<br>Four Lines | McKechnie, Birmingham         |
|                                                               | McKendrick, W. D., & Co., Oakfield Wks., Motherwell, N.B.                               | (Motherwell 73              | Catterbar, Motherwell         |

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|---------------------------------------------------------------------------------------|-----------------------------------|-------------------|---------------------------------|
| McKenzie & Holland, Ltd., 58, Victoria St., Westminster, S.W.                         | Victoria 4760                     | Two Lines         | Mackisig, London                |
| McKenzie, Holland & Westinghouse Power Signal Co., Ltd., 58, Victoria St., S.W.       | Victoria 4760                     | Two Lines         | Powersig, Sowest, London        |
| McKie & Baxter, Copland Works, Govan, Glasgow                                         | Govan 36                          |                   | Calldad, Glasgow                |
| McNeil C., Ltd., Kinning Park Ironworks & Hydraulic Forge, Glasgow                    | South Side 1918 & 1919            |                   | Macnell, Glasgow                |
| Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C. | City 6596                         |                   | Magnoller, London               |
| Malden & Co., Ltd., Hyde, Cheshire                                                    | Hyde 29                           |                   | Malden, Hyde                    |
| Main A. J., & Co., Ltd., 31, Budge Row, E.C.4.                                        | Bank 5024 & 5025                  |                   | Kelvin, Cannon, London          |
| Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow                                     | Gorbals 508                       |                   | Rheostat, Glasgow               |
| Manchester Steam Users' Association, 9, Mount St., Manchester                         | Central 4889                      |                   | Steam Users, Manchester         |
| Manlove, Allott & Co., Ltd., Nottingham                                               | — 274                             |                   | Manloves, Nottingham            |
| Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.                            | Gerrard 3405                      |                   | Manloves, London                |
| Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds                                | Central 514                       |                   | Manning, Leeds                  |
| Mansfield Sand Co., Ltd., Mansfield, Notts.                                           | —                                 |                   |                                 |
| Marsden H. R., Ltd., Soho Foundry, Leeds                                              | Central 526                       |                   | Marsden, Leeds                  |
| Marsden S., & Son, Ltd., London Rd., Manchester                                       | Central 2631                      | Two Lines         | Bolts, Manchester               |
| Marshall, Fleming & Co., Ltd., Motherwell                                             | — 50                              |                   | Dellburn, Motherwell            |
| Marshall, Sons & Co., Ltd., Gainsborough                                              | — 40                              |                   | Marshall, Gainsborough          |
| Marshall, Sons & Co., Ltd., 79, Farringdon Rd., E.C.                                  | Holborn 648                       |                   | Engine, Smith, London           |
| Mason Regulator Co., Boston, Mass., U.S.A.                                            | —                                 |                   | Masonica, Boston, U.S.A.        |
| Masey B. & S., Ltd., Openshaw, Manchester                                             | Central 299                       |                   | Maseys, Openshaw                |
| Mather & Platt, Ltd., Park Works, Manchester                                          | City 6200                         |                   | Mather or Sprinkler, Manchester |
| Maudslay Motor Co., Ltd., Parkside, Coventry                                          | — 110                             |                   | Maudslay, Coventry              |
| Mavor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow                               | Bridgeton 969                     | Five Lines        | Prodigious, Glasgow             |
| Mawdsley's, Ltd., Zone Works, Dursley, Glos.                                          | 6 Nat.                            |                   | Zone, Dursley                   |
| Maxted & Knett, Ltd., Burnett Avenue, Hull                                            | Central 4300                      |                   | Energy, Hull                    |
| Maxwell & Fage, 49, Sefton St., Liverpool                                             | Royal 1817                        |                   | Galvanizer, Liverpool           |
| Mechams Limited, Scotstoun Ironworks, Glasgow                                         | Hillhead 2380                     | Western 2629      | Nautical, Glasgow               |
| Meldrums, Ltd., Timperley, near Manchester                                            | Altrincham 181                    |                   | Meldrum, Altrincham             |
| Merryweather & Sons, Ltd., 63, Long Acre, W.C.                                        | Gerrard 1795                      |                   | Merryweather, London            |
| Metallic Manufacturing Co., Ltd., Ardrossan                                           | Ardrossan 91                      |                   | Joining, Ardrossan              |
| Metallic Valve Co., Colonial House, Water St., Liverpool                              | Central 5818                      |                   | Valve, Liverpool                |
| Metallic Cement Co., 112, Bath St., Glasgow                                           | Douglas 2258                      |                   | Adhesive, Glasgow               |
| Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne                               | Central 3551-2, Newcastle-on-Tyne |                   | Ingots, Newcastle-on-Tyne       |
| Michelin Tyre Co., Ltd., 81, Fulham Rd., Chelsea, S.W.                                | Kensington 4400                   |                   | Pneumelin Telev, London         |
| Middleton Robt., & Co., Sheepscar Foundry, Leeds                                      | — 214                             |                   | Hydraulic, Leeds                |
| Middleton Robt., & Co., 22, Martin's Lane, Cannon St., E.C.                           | Bank 5438                         |                   | Intensifier, London             |
| Midland Railway Carriage & Wagon Co., Ltd., Midland Works, Birmingham                 | —                                 | East 483          | Wagon, Birmingham               |
| Mikron Ltd., Madretsch, Bienne, Switzerland                                           | —                                 | 818               | Mikron, Bienne                  |
| Mild Steel Castings, Ltd., Haymills, Birmingham                                       | Acocks Green 131                  |                   | Mildsteel, Hay Mills            |
| Mirreles, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport                           | Stockport 445                     |                   | Economy, Hazel Grove            |
| Mirreles Watson Co., Ltd., Scotland St., Glasgow                                      | South Side 1781 & 1783            | Kinning Park 69   | Mirreles, Glasgow               |
| Monk Engineering Co., Ltd., High St., Coventry                                        | Coventry 807                      |                   | Assistance, Coventry            |
| Monometer Manufacturing Co., Ltd., Whitehouse St., Aston, Birmingham                  | —                                 | East 917 & 918    | Monometer, Birmingham           |

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|                                 | Morris Herbert, Ltd., Empress Works, Loughborough, Leicestershire .. .. .                                     | 46<br>Four Lines             | Comorris, Loughborough             |
|                                 | Morton & Weaver, Cox St., Coventry .. .. .                                                                    | 932                          | Morton Weaver, Engineers, Coventry |
|                                 | Moss Gear Co., Ltd., Aston Manor, Birmingham .. .. .                                                          | East 407                     | Mosgear, Birmingham                |
|                                 | Motherwell Bridge Co., Ltd., Motherwell, N.B. ... ..                                                          | 40                           | Bridge, Motherwell                 |
| 4 16                            | Motherwell Iron & Steel Co., Motherwell, N.B. ... ..                                                          | Motherwell 123               | Hoops, Motherwell                  |
| 1                               | Mountford Fredk., Ltd., Lifford, Birmingham .. .. .                                                           | Midland 1317<br>Three Lines  | Everything, Birmingham             |
|                                 | Muir Wm., & Co., Ltd., Sherbourne St., Manchester .. ..                                                       | City 529                     | Britannia, Manchester              |
| 1                               | Mumford A. G., Ltd., Culver St. Ironworks, Colchester ..                                                      | 129                          | Mumford, Colchester                |
| 1                               | Muntz P. H., & Co., Ltd., Alexandra Works, West Bromwich ..                                                   | 225<br>Two Lines             | Muntz, Westbromwich                |
| 1                               | Murray, McVinnie & Co., Ltd., Mavisbank Quay, Glasgow ..                                                      | Ibrox 890                    | Metallic, Glasgow                  |
|                                 | Musgrave Bros., Crown Point Foundry, Leeds .. .. .                                                            | 1226                         | Tools, Leeds                       |
|                                 | Musgrave & Co., Ltd., St. Anne's Ironworks, Belfast .. ..                                                     | —                            | Musgrave, Ltd., Belfast            |
|                                 |                                                                                                               |                              |                                    |
|                                 | Nash & Croft, 150, Alma St., Birmingham .. .. .                                                               | —                            |                                    |
| 2                               | Nasmyth, Wilson & Co., Ltd., Bridgewater Foundry, Patricroft, near Manchester .. .. .                         | Eccles 5                     | Nasmyth, Patricroft                |
|                                 | National Alloys, Ltd., Altior Foundry, Ilford, Essex .. ..                                                    | Ilford 240                   | Altior, Ilford                     |
|                                 | National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage, Manchester .. .. .                       | Central 2624                 | National, Manchester               |
|                                 | National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester .. ..                                            | 425                          | National, Ashton-under-Lyne        |
|                                 | National Lathe Co., 15, West Second St., Cincinnati, Ohio ..                                                  | Main 808                     | Elevator, Cincinnati               |
| 4 27                            | Negretti & Zambra, 38, Holborn Viaduct, E.C. .. .. .                                                          | Holborn 583                  | Negretti, London                   |
| 1 4                             | New Destructor Co., Ltd., Walter House, Bedford St., Strand, W.C.2. .. .. .                                   | Gerrard 1840                 | Destructor, Westrand, London       |
|                                 | Newton, Bean & Mitchell, Dudley Hill, Bradford .. .. .                                                        | Dudley Hill 125<br>Two Lines | Adroit, Dudley Hill                |
|                                 | Newton, Chambers & Co., Ltd., Thorncroft Ironworks, near Sheffield .. .. .                                    | Central 2200                 | Newton, Sheffield                  |
| 16                              | Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), Oakwellgate, Gateshead-on-Tyne .. .. .             | Gateshead 466                | Nichols, Engineers, Gateshead      |
| 2 4 6                           | Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A. ..                                                     | —                            | Nilesco, New York                  |
| 16                              | Nilson A. H., Machine Co., Bridgeport, Conn., U.S.A. .. ..                                                    | Barnum 4271                  | Bridgeport, Conn.                  |
|                                 | Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne .. ..                                                     | Gateshead 23                 | Lathe, Felling                     |
|                                 | Norman Thompson Flight Co., Ltd., Middleton, Bognor, Eng. ..                                                  | Bognor 48                    | Soaring, Bognor                    |
|                                 | Normand Augustin, 67, Rue du Perrey, Le Havre, France .. ..                                                   | —                            |                                    |
| 1                               | North British Locomotive Co., Ltd., Administration Building, 110, Flemington St., Springburn, Glasgow .. .. . | Central 2503                 | Loco, Glasgow                      |
| 4                               | North-Eastern Marine Engineering Co., Ltd., Northumberland .. ..                                              | Wallsend 126 & 127           | News, Wallsend                     |
|                                 | North Eastern Railway Co., York .. .. .                                                                       | York 185                     | Chief Goods, Railway, York         |
| 1 6                             | Notcutt Walter F., Ltd., 8, White St., Moorfields, E.C. .. ..                                                 | London Wall 2683             | Ironheads, London                  |
|                                 |                                                                                                               |                              |                                    |
|                                 | Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.E. .. ..                                                  | Central 9781                 | Oakey, London                      |
| 1                               | Oriental Tube Co., Ltd., West Bromwich .. .. .                                                                | West Bromwich 45             | Tubes, West Bromwich               |
| 4 5 24                          | Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield ..                                                   | Central 4544                 | Osborn, Sheffield                  |
|                                 | Oster Manufacturing Co., Cleveland, Ohio, U.S.A. .. .. .                                                      | —                            |                                    |

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| Paisley, Ltd., 82, Jamaica St., Glasgow .. ..                                          | Central 5097-8<br>8574              | Outfitter, Glasgow                |
| Parc, Ltd., Clarence Works, Lockhurst Lane, Coventry                                   | Coventry 1127                       | Parc, Coventry                    |
| 1 Parkinson F., & Co., Wells Works, Guiseley, Leeds ..                                 | { Guiseley 35<br>Leeds Area }       | Parkinson, 35, Guiseley           |
| 1 Parkinson J., & Son, Shipley, Yorkshire .. ..                                        | Shipley 80                          | Temple, Shipley                   |
| Parsons C. A., & Co., Ltd., Heaton Works, Newcastle..                                  | 3078 & 3079                         | Turbo, Newcastle-on-Tyne          |
| Parsons C. A., & Co., Ltd., 8, Victoria St., S.W. ..                                   | Gerrard 5086                        | Shiently, London                  |
| 16 Parsons Thos., & Sons, 315-317, Oxford St., W. ..                                   | Mayfair 6347                        | Varjap, Wexido, London            |
| 1 6 Patent Lightning Crusher Co., Ltd., 14A, Rosebery Av.,<br>Gray's Inn Rd., E.C. ... | City 4836                           | Agenciadler (10), London          |
| 1 Paterson Engineering Co., Ltd., India Hse., Kingsway, W.C. [Holborn                  | 884                                 | Cumulative, London                |
| Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton ..                               | 5                                   | Paul, Dumbarton                   |
| 16 Payne & Sons (Otley), Ltd., Atlas Works, Otley, Yorkshire ..                        | Otley 75                            | Wharfedale, Otley                 |
| Pearlite Steel Co., (1910), Ltd., Royds Mill St., Sheffield [Central                   | 3788                                | Forlitt, Sheffield                |
| Pearn F., & Co., Ltd., West Gorton, Manchester [Central                                | 3013 & 3113                         | Pumps, Manchester                 |
| Pease Company C. F., 213-231, Institute Place, Chicago, Ill.,<br>U.S.A. ...            | —                                   | Peaseco, Chicago                  |
| Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol [Fishponds                       | 6                                   | Peckett, Bristol                  |
| 1 Peeters Francis, Victoria Crescent, Burton-on-Trent..                                | —                                   | Peeters, Burton-on-Trent          |
| 1 3 Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                                   | Bridgeton 2544                      | Penman, Glasgow                   |
| 1 4 Petters, Ltd., Nautilus Works, Yeovil .. ..                                        | —                                   | Petters, Yeovil                   |
| Phoenix Bolt & Nut Co., Handsworth, near Birmingham [Smethwick                         | 24                                  | Bolts, Birmingham                 |
| Phoenix Dynamo Mfg. Co., Ltd., Thornbury Wks., Bradford {Four Lines                    | 3700                                | Dynamo, Bradford                  |
| 1 4 Phosphor Bronze Co., Ltd., 87-91, Sumner Street, Southwark, S.E.<br>Hop 4330-2     | Airdrie 2                           | Phosbronze, London                |
| Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow ..                                  | —                                   | Pickering, Wishaw                 |
| Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W. [Westminster                       | 5271                                | Wagonload, London                 |
| 1 4 6 Pickles John & Son, Hebden Bridge, Yorks. .. ..                                  | 12                                  | Pickles, Engineers, Hebden Bridge |
| Pierce Machine Tool Co., 617w, Jackson Bldg., Chicago,<br>U.S.A. ...                   | Haymarket 3715                      | Piercemap, Chicago                |
| 1 2 16 Piggott Thos., & Co., Ltd., Birmingham .. ..                                    | { Central 3923<br>Three Lines }     | Atlas, Birmingham                 |
| 1 2 16 Piggott Thos., & Co., 63, Queen Victoria St., B.C. ..                           | City 8753                           | Intersection, London              |
| 1 Pitman, Percy, 25, Victoria St., Westminster, S.W. ..                                | [Victoria 6795                      | Hydromotor, Vic., London          |
| Platt Samuel, Ltd., Wednesbury .. ..                                                   | 60                                  | Platt, Wednesbury                 |
| 1 Player W. & J., Birmingham .. ..                                                     | 1404                                | Method, Birmingham                |
| 1 Plenty & Son, Ltd., Newbury, Berkshire .. ..                                         | 7                                   | Plenty, Newbury                   |
| 1 Pollard Fredk., & Co., Ltd., Corona Works, Leicester, Eng. ..                        | 2071                                | Corona, Leicester                 |
| 1 2 4 Pollock & Macnab, Ltd., Bredbury, Stockport .. ..                                | 613                                 | Macnab, Woodley                   |
| 6 Pollock Macnab & Highgate, Shettleston, Glasgow ..                                   | Shettleston 143                     | Highgate, Shettleston             |
| 1 Pontifex & Wood, Ltd., Union Foundry, Derby .. ..                                    | 50                                  | Zero, Derby                       |
| 1 Pontifex & Wood, Ltd., 175-177, Salisbury House,<br>London Wall, B.C. .. ..          | { London Wall 862<br>Central 8190 } | Pontifex, London                  |
| 1 4 16 Pooley Henry, & Son, Ltd., John Bright St., Birmingham {Midland                 | 1737                                | Pooley, Birmingham                |
| 1 16 Positive Lock Washer Co., 118-122, James Watt St., Glasgow Central                | 2862                                | Keystone, Glasgow                 |
| Pott, Cassels & Williamson, Motherwell, near Glasgow                                   | Motherwell 22                       | Pott, Motherwell                  |
| 1 3 6 16 Power Gas Corporation, Ltd., Stockton-on-Tees ..                              | 501                                 | Tetramic, Stockton-on-Tees        |
| 1 3 Power Gas Economy Co., 50, Wellington St., Glasgow [Central                        | 5381                                | —                                 |
| 1 4 16 Power Plant Co., Ltd., West Drayton, Middlesex ..                               | Yiewsley 23                         | Roe, West Drayton                 |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's.  
6 Private. 16 Western Union.

| NAME AND ADDRESS OF ADVERTISER.                                                               |                                | TELEPHONE NUMBER.               | TELEGRAPHIC ADDRESS. |
|-----------------------------------------------------------------------------------------------|--------------------------------|---------------------------------|----------------------|
| Fratchitt Brothers, Denton Iron Works, Carlisle .. ..                                         | 344                            | Fratchitts, Engineers, Carlisle |                      |
| 1 4 Premier Cooler & Engineering Co., Ltd., Broadway Court, Broadway, Westminster, S.W. .. .. | Victoria 1387                  | Precooler, Vic., London         |                      |
| 1 4 Premier Gas Engine Co., Ltd., Sandiacre, Nottingham .. ..                                 | Sandiacre 39                   | Premier, Sandiacre              |                      |
| 1 Priestman Bros., Ltd., Holderness Foundry, Hull .. ..                                       | 81                             | Priestman, Hull                 |                      |
| 1 Priestman Bros., 3, Laurence Pountney Hill, E.C. .. ..                                      | Bank 901                       | Priestman, London               |                      |
| Prinsep & Co., Sheffield .. ..                                                                | 2315                           | Prinsep, Sheffield              |                      |
| Proctor James, Ltd., Burnley, Lancashire .. ..                                                | 312                            | Proctor, Burnley                |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W. [Victoria 4545]               | 4545                           | Pulsometer, London              |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, Berks. .. ..          | 583                            | Pulsometer, Reading             |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., 15, King St., Leeds .. ..                           | 1925                           | Pulsometer, Leeds               |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool .. ..                      | 228                            | Pulsometer, Liverpool           |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., 160, St. Vincent St., Glasgow .. ..                 | City 8526                      | Pulsometer, Glasgow             |                      |
| 2 3 4 5 Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester .. ..      | City 45                        | Pulsometer, Manchester          |                      |
| 1 Pumps Limited, 81, Spencer St., Birmingham .. ..                                            | Central 2364                   | Salvage, Birmingham             |                      |
| Purden Charles, Ltd., Lancaster St., Birmingham .. ..                                         | 234-6                          | Presses, Birmingham             |                      |
| Radford R. Heber, Son & Squire, 15, St. James Row, Sheffield .. ..                            | 425                            | Radford, Sheffield              |                      |
| Rahn-Larmon Co., Cincinnati, Ohio, U.S.A. .. ..                                               | —                              | —                               |                      |
| 1 Ramshay & Marshall, Ltd., Birmingham .. ..                                                  | { Central 7531 }<br>Two Lines  | Ramshay, Birmingham             |                      |
| 1 2 4 Ransome A., & Co., Ltd., 63, Queen Victoria St., E.C. .. ..                             | City 8779                      | Ransome, Cent., London          |                      |
| 1 2 4 Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent .. ..                           | { 119 }<br>Two Lines           | Ransome, Newark                 |                      |
| Ransome-ver Meer Machinery Co., Ltd., 505, Brunswick House, Westminster, S.W. .. ..           | Victoria 2198                  | Vermehrice, Vic., London        |                      |
| Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich .. ..                                   | 904                            | Waterside, Ipswich              |                      |
| 1 6 Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich .. ..                             | 11                             | Ransomes, Ipswich               |                      |
| 1 6 Ransomes, Sims & Jefferies, Ltd., 34, Old Broad St., E.C. [Central 10817]                 | 10817                          | Anglia, London                  |                      |
| Rapid Magnetising Machine Co., Ltd., 18, The Crescent, Birmingham .. ..                       | 1842                           | Borings, Birmingham             |                      |
| Raworth John B., 70-71, Queen Anne's Chambers, S.W. [Victoria 2025]                           | 2025                           | Readers, Nottingham             |                      |
| 1 3 Reader E., & Sons, Phoenix Works, Cremona St., Nottingham .. ..                           | 414                            | Readers, Nottingham             |                      |
| 4 6 Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich .. ..                              | 325                            | Reavell, Ipswich                |                      |
| 1 2 Reay Gearworks, Ltd., Gateshead-on-Tyne .. ..                                             | Gateshead 520                  | Gears, Gateshead                |                      |
| Reddaway F., & Co., Ltd., Pendleton, Manchester .. ..                                         | City 5320                      | Anchorage, Manchester           |                      |
| Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C. .. ..                                 | Gerrard 5878                   | Firocks, London                 |                      |
| Reddaway F., & Co., Ltd., 50 and 51, Lime St., E.C. .. ..                                     | Avenue 2834                    | Reddaway, London                |                      |
| 1 4 Redman C., & Sons, Dunkirk, Halifax .. ..                                                 | 306                            | Redmans, Engineers, Halifax     |                      |
| 2 3 16 Rees Rotarbo Manufacturing Company, Ltd., Wolverhampton, Eng. .. ..                    | Wolverhampton 900              | Hydroturbo, Wolverhampton       |                      |
| Roid Gear Co., Linwood, near Paisley .. ..                                                    | Johnstone 4 X                  | Roid, Linwood                   |                      |
| 4 Ronald Hans, Ltd., Progress Works, Manchester .. ..                                         | City 6383                      | Driving, Manchester             |                      |
| 1 16 Roytelle A., & Co., Ltd., Hebburn-on-Tyne .. ..                                          | { Gateshead 279 }<br>Two Lines | Roytelle, Hebburn               |                      |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Morse's. 6 Private.  
16 Western Union.

| NAME AND ADDRESS OF ADVERTISER.                                                  | TELEPHONE NUMBER.               | TELEGRAPHIC ADDRESS.      |
|----------------------------------------------------------------------------------|---------------------------------|---------------------------|
| 4 Rhodes Manufacturing Co., Hartford, Conn., U.S.A. ..                           | Charter 8429                    | Rhodes, Hartford          |
| 1 Rice & Co. (Leeds), Ltd., Neville Works, Eiland Rd., Leeds                     | 2362                            | From, Leeds               |
| Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                          | Wednesbury 96                   | Richards, Wednesbury      |
| Richards Geo., & Co., Ltd., Broadheath, nr. Manchester                           | Altrincham 14                   | Richards, Altrincham      |
| Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham .. .. .         | East 800                        | Westminster, Birmingham   |
| 1 16 Richardson, Westgarth & Co., Ltd., Engine Works, Hartlepool                 | 247                             | Richardson, Hartlepool    |
| Richmond Gas Valve & Meter Co., Ltd., Academy St., Warrington .. .. .            | 415 }<br>Three Lines            | Gastoves, Warrington      |
| 6 Rimington Bros., Abbey St., Carlisle .. .. .                                   | 181                             | Sterling, Carlisle        |
| 1 Robertson Thos. R., 7, Hurst St., Liverpool .. ..                              | Central 1995                    | Hydraulic, Liverpool      |
| Robey & Co., Ltd., Lincoln .. .. .                                               | 3                               | Robey, Lincoln            |
| 1 2 4 Robinson T., & Son, Ltd., Rochdale .. .. .                                 | 467                             | Robinson, Rochdale        |
| 1 Robson E. Capper & Co., Ltd., 1, North Hill, Darlington                        | 2405                            | Capper, Darlington        |
| 1 Robson John (Shipley), Ltd., Shipley, Yorks. .. ..                             | Shipley 57                      | Robson, Shipley           |
| 1 2 Ree & Harrison, Ltd., Derby .. .. .                                          | Derby 1054                      | Globe, Derby              |
| 3 Rose, Down & Thompson, Ltd., Old Foundry, Hull ..                              | Central 344                     | Rose, Hull                |
| 1 2 Ross & Duncan, Whitefield Works, Glasgow .. ..                               | 5223                            | Whitefield, Glasgow       |
| Ross R. G., & Son, Ltd., Glasgow .. .. .                                         | Bridgeton 89                    | Glenora, Glasgow          |
| 1 4 Roper & Russell, Ltd., Queen's Wharf, Hammersmith                            | Hammersmith 31                  |                           |
| 1 4 Rowan David, & Co., 231, Elliot St., Glasgow .. ..                           | Central 4340                    | Rowan, Glasgow            |
| 1 4 Rowland B. R., & Co., Ltd., Climax Works, Reddish, near Manchester           | Heaton Moor 47                  | Herak, Reddish            |
| 1 Rowson, Drew & Clydesdale, Ltd., 225, Upper Thames St., B.C.                   | Central 1070                    | Rowson, Cent., London     |
| 1 Royce Ltd., Trafford Park, Manchester { Trafford Park 690, 691 & 692           | Three Lines                     | Switch, Manchester        |
| 1 3 4 Royles, Limited, Irlam, near Manchester .. ..                              | Urmston 68 }<br>Manchester 6718 | Elyer, Cadishead          |
| 1 4 Rubber Industries, Ltd., Downham Mills, Tottenham, N.                        | Tottenham 120 }<br>Four Lines   | Reclaiming, Telex, London |
| 1 Rubery, Owen, & Co., Darlaston, South Staffordshire                            | Darlaston 22 }<br>Two Lines     | Roofs, Darlaston          |
| Russell G., & Co., Ltd., Motherwell, N.B. .. ..                                  | 4                               | Russell, Motherwell       |
| 1 2 Russell John, & Co., Ltd., Alma Tube Works, Walsall                          | 34                              | Alma, Walsall             |
| 1 2 6 Ruston, Proctor & Co., Ltd., Sheaf Ironworks, Lincoln                      | 580-585                         | Ruston, Glasgow           |
| 1 5-1920 Sandycroft Limited, Chester .. .. .                                     | Connahs Quay 2                  | Sandycroft, Hawarden      |
| 1 Sankey Joseph, & Sons, Ltd., Hadley, Salop .. ..                               | Wellington 66                   | Sankey, Hadley            |
| 1 Savery T. A., & Co., Ltd., Newcomen Works, Birmingham                          | Central 3539                    | Newcomen, Birmingham      |
| 1 Schmidt's Superheating Co. (1910), Ltd., 28, Victoria St., S.W. [Victoria 1535 |                                 | Ensulim, London           |
| 1 Scott Bros. (Keighley), Albion Works, Keighley ..                              | Keighley 381                    | Scott, Keighley, 381      |
| 1 Scott Bros., West Mount, Halifax .. .. .                                       | 116                             | Scott, Halifax            |
| Scott Walter, Ltd., Leeds Steel Works, Leeds .. ..                               | 510                             | Bessmer, Leeds            |
| Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C.4                         | City 8257                       | Printeries, Cent., London |
| 1 2 4 16 Scottish Tube Co., Ltd., 34, Robertson St., Glasgow ..                  | Central 5687 }<br>Six Lines     | Scotnabece, Glasgow       |
| Scriven & Co., Marsh Lane, Leeds .. .. .                                         | 1819                            | Scriven, Leeds            |
| 1 6 Seagers, Ltd., Dartford .. .. .                                              | Dartford 28                     | Seagers, Dartford         |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private.  
16 Western Union. 19 Universal Mining. 20 McNeill's.

| NAME AND ADDRESS OF ADVERTISER.                                                         |  | TELEPHONE NUMBER.            | TELEGRAPHIC ADDRESS.       |
|-----------------------------------------------------------------------------------------|--|------------------------------|----------------------------|
| Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C.4                             |  | [Central 11779               | Selig, Cent., London       |
| Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow                           |  | 31                           | Shanks, Johnstone          |
| Shaw W., & Co., Wellington Cast Steel Foundry, Middlesbro'-on-Tees                      |  | 106                          | Wellington, Middlesbro'    |
| Shore Instrument & Mfg. Co., 555-557, West 22nd St., New York                           |  | Chelsea 3253                 | Shoreinst, New York        |
| 1 16 36 Shuster F. B., Co. (The), New Haven, Conn., U.S.A.                              |  | 2460                         | Adt, Newhaven; U.S.A.      |
| 1 2 Siebe, Gorman & Co., Ltd., Neptune Works, London, S.E.                              |  | { Hop 2401<br>Two Lines }    | Siebe, Lamb., London       |
| 1 2 3 Siemens Bros. & Co., Ltd., Caxton House, Westminster, S.W.                        |  | Gerrard 860                  | Siemens, Vic., London      |
| 4 5 16 Siemens Brothers Dynamo Works, Ltd., Palace Place Mansions, Kensington Court, W. |  | Western 6349                 | Siembralos, Kens., London  |
| 1 11 33 Simons W., & Co., Ltd., Renfrew, Scotland                                       |  | 3                            | Simons, Renfrew            |
| 1 2 3 4 16 Simpson James, & Co., Ltd., 101, Grosvenor Rd., Piccadilly, Victoria         |  | 8473-8475                    | Aqualty, London            |
| Simson W., & Co., Ltd., Gloucester                                                      |  | —                            | Simson, Gloucester         |
| Skofko Ball Bearing Co., Ltd., 28, Victoria St., S.W.                                   |  | [Victoria 6641               | Skofko, Vic., London       |
| 1 Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.                                    |  | Park 4519                    | Sleeper, Worcester, Mass   |
| Smedley Bros., Ltd., Belper, Derbyshire                                                 |  | 12                           | Smedley, Belper            |
| Smethwick Stamping Co., Bridge St., Smethwick, Staffs.                                  |  | Smethwick 13                 | Drolorg, Smethwick         |
| Smith L., & Zoon, Kinderdyk, near Rotterdam, Holland                                    |  | —                            | Smidssoon, Kinderdyk       |
| 1 Smith & Coventry, Ltd., Gresley Ironworks, Ordsal Lane, Manchester                    |  | 564                          | Gresley, Manchester        |
| Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston..                                  |  | P.O. 19                      | Grace, Thrapston           |
| Smith & Pearson, Ltd., Newcomen Ironworks, Dublin                                       |  | Dublin 1499                  | Pearson, Dublin, 1499      |
| 1 6 Smith, Barker, Willson & Co., Halifax                                               |  | Halifax 46                   | Lathe, Hillingworth        |
| Smith Bros. & Hill, Ltd., Albert Spring Works, West Bromwich                            |  | West Bromwich 125            | Springs, West Bromwich     |
| 3 Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow                                 |  | Douglas 2650                 | Possil, Glasgow            |
| Smith S., & Sons, Ltd., Grand Hotel Bldgs., Trafalgar Sq., W.C.                         |  | Gerrard 2830                 | Ruspoli, London            |
| 1 Smith Thos., & Sons, Steam & Electric Crane Works, Rodley, near Leeds                 |  | Stanningley 12 & 18          | Smith, Rodley              |
| 16 Smulders A. F., Schiedam, Rotterdam, Holland                                         |  | 194                          | Aamulders, Schiedam        |
| Somers Walter, & Co., Ltd., Halesowen                                                   |  | —                            | —                          |
| Somerville D. G., & Co., Ltd., 120-122, Victoria St., S.W.                              |  | Victoria 2109                | —                          |
| Southern James W., & Son, Ltd., Store St., Manchester                                   |  | [Central 253 & 4600          | Lignum, Manchester         |
| Spencer James, & Co., Ltd., Hollinwood, nr. Manchester                                  |  | [Hollinwood 207              | Spencer, Hollinwood        |
| Spencer John, Ltd., Wednesbury                                                          |  | 4 (Two Lines)                | Tubes, Wednesbury          |
| Sperry Gyroscope Co., Ltd., 15, Victoria St., S.W.                                      |  | Victoria 7398                | Sperrygy, Victoria, London |
| Sperry B. & F. N., 57, Haymarket, S.W.                                                  |  | —                            | —                          |
| 1 S.R.O. Ball-Bearing Co., 115, Southwark St., S.E.                                     |  | { Hop 2734<br>Central 5172 } | Esararba, Borok, London    |
| Staffordshire Tube Co., Ltd., Edmund St., Birmingham                                    |  | Central 6456 & 6447          | Unabsten, Birmingham       |
| Stainby & Lyon, Ltd., Knottingley, Yorks                                                |  | 9                            | Alroter, Knottingley       |
| Standard Engineering Co., Ltd., Leicester                                               |  | —                            | Standard, Leicester        |
| 1 Standard Piston Ring & Engineering Co., Premier Works, Don Rd., Sheffield             |  | 2149                         | Ocean, Sheffield           |
| 4 Standard Pressed Steel Co., Philadelphia, U.S.A.                                      |  | Bell, Tioga, 2322            | Stamping, Philadelphia     |
| 16 33 Stead J., & Co., Ltd., Manor Works, Sheffield                                     |  | Central 3112                 | Steadfast, Sheffield       |
| Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester          |  | Central 1645                 | Sealfeld, Manchester       |
| 1 2 3 Steel Company of Scotland, Limited, 23, Royal Exchange Square, Glasgow            |  | { City 2436<br>Four Lines }  | Steel, Glasgow             |
| 1 Steel Pipe Company, Ltd., Kirkcaldy, N.B.                                             |  | 85                           | Aquillenus, Kirkcaldy      |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private.  
11 Scott's. 16 Western Union. 33 Bentley's. 36 Postal.

| NAME AND ADDRESS OF ADVERTISER.                       |                                                                              | TELEPHONE NUMBER.        | TELEGRAPHIC ADDRESS.              |
|-------------------------------------------------------|------------------------------------------------------------------------------|--------------------------|-----------------------------------|
| Steinle Turret Machine Co., 53, Victoria St., S.W. .. |                                                                              | Victoria 6175            | Steinle, 53, Victoria St., London |
| 1 3 32                                                | Stephenson Robert, & Co., Ltd., Darlington ..                                | 7700                     | Rocket, Darlington                |
| 1 4 16                                                | Steploe John, & Co., Camp Washington, Cincinnati, Ohio, U.S.A. ..            | West 848                 | Steploe, Cincinnati               |
| 1                                                     | Sterne L., & Co., Ltd., Crown Ironworks, Glasgow ..                          | Douglas 1064-1066        | Crown, Glasgow                    |
| 1                                                     | Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C. [Gerrard 1989     | 1989                     | Elsternne, London                 |
| 1                                                     | Sterns, Ltd., 16, Finsbury Sq., E.C. ..                                      | [London Wall 3797-9      | Centumvir, Finsquare, London      |
| 1                                                     | Steven & Struthers, Kelvinhaugh, Glasgow ..                                  | Western 3375-6           | Bronze, Glasgow                   |
| 1                                                     | Stevens H. J., & Son, 121, New North Rd., N. ..                              | Central 11464            | Alterwale, Mex, London            |
| 1 2 4 6 16                                            | Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow                   |                          |                                   |
|                                                       | Bridgeton 271, 3243 & 3344                                                   |                          | Stewart, Glasgow                  |
| 3 5                                                   | Stewarts & Lloyds, Ltd., 47, Oswald St., Glasgow ..                          | City 9880                | Lapwold, Glasgow                  |
| 1 3 5                                                 | Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham [Midland 1234        | 1234                     | Lloyds, Birmingham                |
| 1 4                                                   | Stirk John, & Sons, Ltd., Halifax ..                                         | 124                      | Stirk, Halifax                    |
| 1                                                     | Stone J., & Co., Deptford, S.E. ..                                           | New Cross 1203           | Tostonce, Deptmark, London        |
|                                                       | Four Lines                                                                   |                          |                                   |
| 1 16                                                  | Stone J. B., & Co., Ltd., 135, Finsbury Pavement, E.C. ..                    | Central 1848             | Sighscoer, London                 |
|                                                       | Stoithert & Pitt, Ltd., Bath ..                                              | 987                      | Stoithert, Bath                   |
|                                                       | Stoithert & Pitt, Ltd., 38, Victoria St., S.W. ..                            | Victoria 1949            | Stoithert, London                 |
|                                                       | Stott S. S., & Co., Haslingden, near Manchester ..                           | 3                        | Elevator, Haslingden              |
|                                                       | Strachan & Henshaw, Ltd., Bristol ..                                         | 432                      | Strashaw, Bristol                 |
|                                                       | Stringer Brothers, Albion, West Bromwich ..                                  | 1                        | Stringer, West Bromwich           |
|                                                       | Sturtevant Eng. Co., Ltd., 147, Queen Victoria St., E.C. ..                  | Central 7121             | Sturtevant, London                |
|                                                       | Sugden T., Ltd., 180, Fleet St., E.C. ..                                     | Holborn 186              | Tubularity, London                |
| 1 2 4 16                                              | Sulzer Brothers, 30, Norfolk St., Strand, W.C. ..                            | Gerrard 4263             | Gebulzer, London                  |
| 1                                                     | Summerson Thomas, & Sons, Ltd., Darlington ..                                | 2660                     | Summerson, Darlington             |
|                                                       | Two Lines                                                                    |                          |                                   |
| 1                                                     | Sun Electrical Co., Ltd., 118 & 120, Charing Cross Rd., W.C. [Gerrard 2291-3 | 2291-3                   | Socabilis, Ox., London            |
|                                                       | Sun Shipbuilding Co., 1428 So. Penn Square, Philadelphia, Pa., U.S.A. ..     |                          |                                   |
|                                                       | Sunderland Forge & Engineering Co., Ltd., Pallion, Sunder-land ..            | 1233                     | Marr, Sunderland                  |
|                                                       | Two Lines                                                                    |                          |                                   |
|                                                       | Superheater Units, Ltd., 4, Castle Square, Swansea ..                        | Central 1396             | Superunits, Swansea               |
|                                                       | Sutcliffe Bros., Globe Works, Hyde ..                                        | Hyde 70                  | Sutcliffe Bros., Hyde             |
| 1 4                                                   | Swift George, & Sons, Ltd., Range Bank, Halifax ..                           | 497                      | Swiftly, Halifax                  |
|                                                       | Swinney Brothers, Limited, Morpeth, Northumberland                           | 92                       | Swinney, Morpeth                  |
|                                                       | Two Lines                                                                    |                          |                                   |
|                                                       | Swiss Machine Tool Works, Oerlikon, Switzerland Zurich 7245 & 6744           | 7245 & 6744              | Oerlikon                          |
| 6                                                     | Tangyes, Ltd., Cornwall Works, Birmingham ..                                 | Central 6460             | Tangyes, Birmingham               |
| 6                                                     | Tangyes, Ltd., 35, Queen Victoria St., E.C. ..                               | City 5024 (Two Lines)    | Tangyes, London                   |
| 1                                                     | Tattersall A. A., & Co., Blackburn ..                                        | Blackburn 6273           | Vitundum, Blackburn               |
|                                                       | Taylor Albert A., 4, Midland St., Ardwick, Manchester                        | [Central 4015            |                                   |
| 1                                                     | Taylor & Challen, Ltd., Derwent Foundry, Birmingham                          | Central 376              | Derwent, Birmingham               |
|                                                       | Two Lines                                                                    |                          |                                   |
| 1                                                     | Taylor Charles (Birmingham), Ltd., Bartholomew Sq., Birmingham ..            | Central 6373, 6374, 6375 | Lathes, Birmingham                |
| 1 6                                                   | Taylor & Hubbard, Leicester ..                                               | 575                      | Lifting, Leicester                |
|                                                       | Terry Herbert, & Sons, Ltd., Redditch ..                                     | Three Lines 61           | Springs, Redditch                 |

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6 Private. 16 Western Union. 32 Engineering Standards.

| NAME AND ADDRESS OF ADVERTISER.                                                     | TELEPHONE NUMBER.            | TELEGRAPHIC ADDRESS.          |
|-------------------------------------------------------------------------------------|------------------------------|-------------------------------|
| Thermotank Co., 55, West Regent St., Glasgow ..                                     | Douglas 2324                 | Thermotank, Glasgow           |
| 4 16 Thomas & Bishop, 37, Tabernacle St., B.C. ..                                   | Central 7046                 | Velcing, London               |
| 1 Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston ..           | Bilston 10                   | Thompson Bros., Bilston       |
| 4 6 16 Thompson John, Wolverhampton ..                                              | Wolverhampton 1138 & 1139    | Boiler, Wolverhampton         |
| 1 3 Thornycroft J. I., & Co., Ltd., Caxton House, Westminster, S.W. ..              | Victoria 8000                | Thornycroft, Vic., London     |
| 1 3 Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W. (Gerrard 9219)  | Central 3723                 | Managable, London             |
| 1 3 Thornycroft J. I., & Co., Ltd., Basingstoke, Hants. ..                          | 39                           | Thornycroft, Basingstoke      |
| 1 3 Thornycroft J. I., & Co., Ltd., Woolston, Southampton ..                        | 415                          | Thornycroft, Southampton      |
| Tickle John, & Co., Ltd., Providence Works, West Bromwich                           | West Bromwich 335            | —                             |
| Tilghman's Patent Sand Blast Co., Broadheath, near Manchester ..                    | —                            | Tilghmans, Altrincham         |
| 1 Timbrell & Wright Machine Tool & Eng. Co., Ltd., Birmingham                       | Central 3723                 | Revolving, Birmingham         |
| Tinker, Shenton & Co., Ltd., Hyde, near Manchester ..                               | Ashton-u-Lyne 21             | Duplex, Hyde                  |
| Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham ..                 | East 248                     | Tomey, Birmingham             |
| Toward T., & Co., Ltd., 9, Ouseburn, Newcastle-on-Tyne ..                           | Central 515                  | Toward, Newcastle-on-Tyne     |
| Tranter's W. J., Boiler Appliance Co., Tipton, Staffordshire ..                     | Tipton 76                    | Titan, Tipton                 |
| Trentham Engineering Co., Cornbrook, Manchester [Trafford Park 26]                  | —                            | —                             |
| 1 11 Trewent F. J., & Proctor, Ltd., 4, Billiter Buildings, Billiter St., B.C. ..   | Avenue 121                   | Trewent, London               |
| Trier Bros., Ltd., 36, Victoria St., Westminster, S.W. 1.                           | Victoria 900                 | Viscosity, London             |
| Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A.                          | Roxbury 3710 & 3711          | Triwrench, Roxbury.           |
| Triplex Safety Glass Co., 1, Albemarle St., W. ..                                   | Regent 1340                  | Shatterlys, Piccy, London     |
| 1 2 3 Tubes, Ltd., Birmingham ..                                                    | East 871 & 872<br>Four Lines | Cylinders, Birmingham         |
| Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow ..                           | 4                            | Tullis, Clydebank             |
| Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E. ..                        | Central 706                  | Kilbowie, London              |
| 1 2 Tullis John, & Sons, Ltd., St. Ann's Leather Works, Glasgow                     | 2520                         | Tullis, Glasgow               |
| 1 2 Turbine Gears, Ltd., Hyde ..                                                    | Hyde 41                      | Gears, Hyde                   |
| 1 6 Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow                              | 4394<br>Bishopbriggs 49      | Valve, Glasgow                |
| Turton T., & Sons, Ltd., Sheaf Works, Sheffield ..                                  | 1062                         | Turtons, Sheffield            |
| 1 4 6 Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., B.C. 4. ..       | City 6131<br>Two Lines       | Horsepower, Cannon, London    |
| 1 4 6 Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester ..   | City 5640<br>Two Lines       | Strength, Manchester          |
| United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne ..             | 1938                         | Impression, Newcastle-on-Tyne |
| 1 4 United States Metallic Packing Co., Ltd., Soho Works, Allerton Rd., Bradford .. | 4705 & 4706                  | Metallic, Bradford            |
| 1 United Water Softeners, Ltd., Imperial House, Kingsway, W.C. ..                   | Regent 5270, 1 & 2           | Aquadolce, London             |
| 51620 Universal Machinery Corporation, Ltd., 326, Old St. (Shoreditch), B.C. ..     | London Wall 3763             | Toolcraft, London             |

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6 Private. 11 Scott's. 16 Western Union. 20 McNeill's.



| NAME AND ADDRESS OF ADVERTISER.                                                          | TELEPHONE NUMBER.     | TELEGRAPHIC ADDRESS.        |
|------------------------------------------------------------------------------------------|-----------------------|-----------------------------|
| 2 Vacuum Brake Co., Ltd., 32, Queen Victoria St., E.C...                                 | .. Bank 5534          | Solution, London            |
| Valor Company, Ltd., Aston Cross, Birmingham ..                                          | .. East 252-3         | Valor, Birmingham           |
| 1 16 Vanadium Alloys Steel Co., Latrobe, Penn., U.S.A. ..                                | .. 495-7              | Vanadium, Latrobe           |
| 1 Vaughan Crane Co., Ltd., Openshaw, Manchester                                          | { Openshaw 256        | Vaunting, Manchester        |
| Vaughan Engineering Works, Ltd., 22, Cross St., Islington, N. [North 1122                | { Central 5113        | Autoflex, Norder, London    |
| Vickers Benj. R., & Sons, Ltd., Leeds .. ..                                              | .. Central 449        | Vickers, Leeds              |
| 2 Vickers Ltd., River Don Works, Sheffield .. ..                                         | .. Central 3200       | Vickers, Sheffield          |
| 2 Vickers Ltd., Vickers House, Broadway, Westminster, S.W. [Gerrard 10110                |                       | Vickers, London             |
| Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh [Leith 328                   |                       | Shells, Edinburgh           |
| Vistiok Ltd., 3, St. Bride's House, Salisbury Sq., E.C. ..                               | .. —                  |                             |
| 1 Vosper & Co., Ltd., Broad St., Portsmouth .. ..                                        | .. 909                | Repsov, Portsmouth          |
| 1 4 16 Vulcan Steel Products Co., 120, Broadway, New York, U.S.A.                        | .. —                  |                             |
| 1 4 Wadkin & Co., London St., Leicester .. ..                                            | .. 3614               | Woodworker, Leicester       |
| 1 Wake John Frederick, 123, Victoria Rd., Darlington ..                                  | .. 75                 | Wake, Darlington            |
| 1 2 Wakefield C. C. & Co., Wakefield House, Cheapside, E.C.                              | Central 11305 & 13466 | Cheery, Cent, London        |
| 1 Walber W. A., & Co., 38, Victoria Street, Westminster, S.W. .. ..                      | { Victoria 3190       | Vilvalle, London            |
| 1 4 5 16 Walker Bros. (Wigan), Ltd., Pagefield Ironworks, Wigan ..                       | { Wigan 141           | Pagefield, Wigan            |
| Walker George & Sons (Birmingham), Ltd., Whittall St., Birmingham .. ..                  | { Central 6435        | Reamers, Birmingham         |
| Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E. [East 3084                |                       | Lioncelle, Pop., London     |
| 1 Walls, Ltd., Crown Works, Fazeley St., Birmingham                                      | Central 582 & 5700    | Emmeton, Birmingham         |
| 1 23 Wallsend Slipway & Engineering Co., Ltd., Wallsend                                  | { Wallsend 117        | Wall, Newcastle-on-Tyne     |
| Wallowork Henry, & Co., Ltd., Manchester .. ..                                           | { City 8400           | Foundry, Manchester         |
| 4 16 Ward H. W., & Co., Ltd., Lionel St., Birmingham                                     | Central 7460 & 7461   | Tudor, Birmingham           |
| Ward, Haggas & Smith, Eastwood, Keighley .. ..                                           | .. Keighley 154       | Planners, Keighley          |
| 4 Ward T. W., Ltd., Albion Works, Sheffield .. ..                                        | .. Central 4321       | Forward, Sheffield          |
| 1 2 3 4 Watson, Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow .. ..               | { South 1700          | Fugal, Glasgow              |
| 1 2 7 23 } .. ..                                                                         | { Three Lines         |                             |
| Waygood-Otis, Ltd., Falmouth Rd., S.E. .. ..                                             | { Hop 4000            | Waygood, Sedist, London     |
| .. ..                                                                                    | { Seven Lines         |                             |
| 1 Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                                    | [Stowmarket 22        | Webb, Combs                 |
| 1 4 Webster & Bennett, Ltd., Foleshill, Coventry ..                                      | .. Coventry 221       | Proffle, Coventry           |
| 1 16 Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow                                 | [Langside 450         | Glwehr, Glasgow             |
| 1 4 16 Welborne & Co., Southferry Bldg., New York, U.S.A.                                | Broad 420-421         | Welborne, New York          |
| Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                             | [Edgbaston 370        | Weldless, Birmingham        |
| 1 Wells A. C., & Co., 103, Midland Rd., St. Pancras, N.W.                                | .. North 341          | Unbreakable, London         |
| 1 Wells A. C., & Co., Carnarvon St., Cheetham, Manchester                                | .. City 1244          | Unbreakable, Manchester     |
| 1 4 5 Werf Conrad, Haarlem, Holland .. ..                                                | .. ..                 | Werfconrad, Haarlem         |
| 1 2 16 Western Wheel Scraper Co., Aurora, Illinois, U.S.A.                               | .. Aurora 137         | Western, Aurora, Illinois   |
| Westinghouse Brake Co., 82, York Rd., King's Cross, N.                                   | .. North 2416         | Westinghouse, London        |
| 1 5 25 Westland Foundry (Branch of Petters, Ltd.), Westland Siding, Yeovil, G.W.R. .. .. | .. Yeovil 82          | Foundry, Yeovil             |
| 1 Westminster Tool & Electric Company, Suffolk Hse., Laurence Pountney Hill, E.C. .. ..  | .. City 54            | Westoleico-Cannon, London   |
| 1 3 4 Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.                           | { East 4208           | Westwood, Millenast, London |
| .. ..                                                                                    | { Four Lines          |                             |
| Whitaker D., 1, Union St., Leicester .. ..                                               | .. Central 2519       | Excavator, Leicester        |
| 1 Whitakers (Engineers), Ltd., Horsforth, Leeds ..                                       | .. Horsforth 23A      | Excavators, Leeds           |
| 16 White E. T., & Co., Windsor House, Kingsway, W.C.                                     | .. Regent 5931        | Autometal, Westcent, London |
| 1 3 4 16 White J. Samuel, & Co., Ltd., East Cowes, I.O.W. ..                             | .. Cowes 3            | White, East Cowes           |
| 1 2 3 5 16 White Rd., & Sons, Widnes, Lancs. .. ..                                       | .. .. 25              | Ralls, Widnes               |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moring's. 16 Western Union. 25 Premier. 27 Marconi. 29 Mercury. 33 Bentley's.



| NAME AND ADDRESS OF ADVERTISER.                                                  | TELEPHONE NUMBER.            | TELEGRAPHIC ADDRESS.            |
|----------------------------------------------------------------------------------|------------------------------|---------------------------------|
| 1 Whiteley James, Ltd., Eagle Works, Well Lane, Halifax                          | Halifax 1488                 | Empire, Illingworth             |
| Whittaker & Co., White Hart St., Paternoster Sq., E.C.                           | Central 11964                |                                 |
| Widdowson John H., Britannia St., Salford, Manchester                            | Trafford Park 420            | Taps, Salford                   |
| Wiggins F., & Sons, 102, 103 & 104, Minorities, E.                               | Avenue 2248                  | Wiggins, Minorities, London     |
| Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, near Bradford            | Shipley 354                  | Clutch, Shipley                 |
| 1 Willey James, & Sons, Ltd., Darlaston                                          | Darlaston 83                 | Willey, Darlaston               |
| Willfley Co., Ltd., Salisbury House, London Wall, E.C.2                          | City 2681 & 2683             | Wrathless, Phone, London        |
| Wilkinson G., & Sons, Keighley                                                   | Keighley 107                 | Wilkinsons, Engineers, Keighley |
| 1 4 16 33 Wilkinson, Heywood & Clark, Ltd., Caledonian Wks., Poplar, B.          | East 1360<br>P. B. E.        | Storson, Millicent, London      |
| 3 4 6 Willans & Robinson, Ltd., Rugby, Warwickshire                              | Three Lines 112              | Willans, Rugby                  |
| 1 Willcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.                      | Hop 3740<br>Four Lines       | Willcox, Southwark St., London  |
| 1 Willetts, Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.         | Cradley 38                   | Willetts Junr., Cradley Heath   |
| 4 16 21 Williams J. H., & Co., 91, Richard St., Brooklyn, New York, U.S.A.       | —                            | Willrich, New York              |
| 4 Wilson J. H., & Co., Ltd., Dock Rd., Birkenhead                                | Birkenhead 1504              | Engineers, Liverpool            |
| 1 6 Wilson William, & Co., Lilybank Boiler Works, Glasgow                        | Bridgeton 3045               | Boiler, Glasgow                 |
| Wincott G. P., Ltd., 180, Attercliffe Rd., Sheffield                             | Central 590                  | Wincott, Sheffield              |
| Winn Charles, & Co., Granville Place, Birmingham                                 | Midland 366 & 1437           | Winn, Birmingham                |
| Wisconsin Electric Co., Racine, Wisconsin, U.S.A.                                | 3591                         | Dunmore, Racine                 |
| 1 4 Wolseley Motors Ltd., York St., S.W.                                         | Victoria 6220                | Autovent, Vic. London           |
| Wolseley Motors Ltd., Adderley Park, Birmingham                                  | Central 4361                 | Exactitude, Birmingham          |
| Wolverhampton, Borough of, Town Hall, Wolverhampton                              | 88                           | Borough Engineer, Wolverhampton |
| 1 4 16 37 Wonham, Bates & Goode (Inc.), 17, Battery Place, New York City, U.S.A. | Rector 8451                  | Stapely, New York               |
| Wood Edward, & Co., Ltd., Ocean Iron Works, Manchester                           | Trafford Park 810            | Ventilate, Manchester           |
| Wood H., & Co., Ltd., 65, Fenchurch St., E.C.                                    | Avenue 1545                  | Huwood, Fen., London            |
| Woodite Works, Mitcham Common, Surrey                                            | Mitcham 1502                 | Woodite, Mitcham                |
| Worcester Royal Porcelain Co., Ltd., Worcester                                   | Worcester 22                 | Royal, Worcester                |
| 2 4 Worthington Pump Co., Ltd., Queen's House, Kingsway, W.C.                    | Holborn 3048, 3049 and 3050  | Pumping, Westcent, London       |
| Wright John, & Co., Essex Works, Birmingham                                      | —                            | Eureka, Birmingham              |
| 1 3 6 Wright's Forge & Engineering Co., Ltd., Tipton, Staffordshire              | Tipton 32                    | Wright, Tipton                  |
| 1 3 6 Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, E.C.              | Wall 6585                    | Penetration, London             |
| 4 16 Wrigley E. G., & Co., Ltd., Foundry Lane Works, Birmingham                  | Smethwick 148<br>Three Lines | Cutters, Birmingham             |
| 3 Yarrow & Co., Ltd., Glasgow                                                    | Western 2082                 | Yarrow, Glasgow                 |
| 2 Yates & Thom, Ltd., Canal Works, Blackburn                                     | 43 & 345                     | Yates, Blackburn                |
| Yorkshire Copper Works, Ltd., Leeds                                              | 4360<br>Three Lines          | Tubes, Leeds                    |
| 1 Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield                   | Attercliffe 129-30           | Engine, Sheffield               |
| Young & Co. (Westminster), Ltd., 161, Victoria St., Westminster, S.W.1           | Victoria 5161                | Hipplique, Sowest, London       |
| 4 25 Youngs, Ryland St. Works, Birmingham                                        | Midland 301                  | Oldens, Birmingham              |

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# KEY TO TELEGRAPHIC ADDRESSES.

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                                |
|---------------------------------|--------------------------------------------------------------------------------|
| Abbott, Newark .. ..            | Abbott & Co. (Newark), Ltd., Newark-on-Trent                                   |
| Accumulator, Sowest, London ..  | Drake & Gorham, Ltd., 66, Victoria St., S.W.                                   |
| Accelerator, Sowest, London ..  | Allen-Liversidge, Ltd., 106, Victoria St., S.W.                                |
| Achilles, Glasgow .. ..         | London Brothers, Ltd., 39, West Campbell St., Glasgow                          |
| Adamson, Dukinfield .. ..       | Adamson Daniel, & Co., Ltd., Dukinfield                                        |
| Adaptable, Birmingham .. ..     | Adaptable Moulding Machine Co., Stanhope St., Birmingham                       |
| Adhesivc, Glasgow .. ..         | Metalline Cement Co., 112, Bath St., Glasgow                                   |
| Adopted, Strat., London .. ..   | Grover & Co., Ltd., Carpenters Rd., Stratford, B.                              |
| Adroit, Dudley Hill .. ..       | Newton, Bean & Mitchell, Dudley Hill, Bradford                                 |
| Adt, Newhaven, U.S.A. .. ..     | Shuster F. B. Co., Newhaven, Conn., U.S.A.                                     |
| Aerography, London .. ..        | Aerograph Co., Ltd., 45, Holborn Viaduct, E.C.                                 |
| Afterwale, Hox, London .. ..    | Stevens, H. J. & Son, 121, New North Rd., N.                                   |
| Agenciador (10), London .. ..   | Patent Lightning Crusher Co., Ltd., 142, Rosebery Avenue, Gray's Inn Rd., B.C. |
| Aikretar, Knottingley .. ..     | Stalnsby & Lyon, Ltd., Knottingley, Yorks                                      |
| Airostyle, Fleet, London .. ..  | Airostyle & Lithos, Ltd., 35, St. Bride St., Ludgate Circus, E.C.              |
| Aledale, New York .. ..         | Dalton Machine Co., Inc., 1911, Park Avenue, New York, U.S.A.                  |
| Alexson, Leeds .. ..            | Alexander, Herbert, & Co., Ltd., Leeds                                         |
| Alldays, Birmingham .. ..       | Alldays & Onions Pneumatic Engineering Co., Ltd., Birmingham                   |
| Allen, Sheffield .. ..          | Allen Edgar & Co., Ltd., Imperial Steel Works, Sheffield                       |
| Alley, Glasgow .. ..            | Alley & Maclellan, Ltd., Sentinel Works, Glasgow                               |
| Allports .. ..                  | American Steel & Export Co., Woolworth Bldg., New York, U.S.A.                 |
| Alma, Walsall .. ..             | Russell John, & Co., Ltd., Alma Tube Works, Walsall                            |
| Alloyau, Cannon, London .. ..   | Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., B.C.                   |
| Alufural, Bilgate, London .. .. | Baxter, Fell & Co., 22 & 23, Great Tower St., E.C.3.                           |
| Aluminium, Birmingham .. ..     | London Aluminium Co., Ltd., Westwood Rd., Aston, Birmingham                    |
| Amarilla, Derby .. ..           | Fletcher George, & Co., Ltd., Litchurch, Derby                                 |
| Anaelastic, Wands., London ..   | Aluminium Plant & Vessel Co., Ltd., Point Pleasant, S.W.18.                    |
| Anchorage, Manchester .. ..     | Reddaway F., & Co., Ltd., Pendleton, Manchester                                |
| Anderson, Belfast .. ..         | Anderson D., & Son, Ltd., Lagan Works, Belfast                                 |
| Anglia, London .. ..            | Ransomes, Sims & Jefferies, Ltd., Palmerston House, 34, Old Broad St., E.C.    |
| Angus, Newcastle .. ..          | Angus George, & Co., Ltd., Newcastle-on-Tyne                                   |
| Aquadolce, London .. ..         | United Water Softeners, Ltd., Imperial House, Kingsway, W.C.                   |
| Aquapureo, Fin., London .. ..   | Buhning's Patent Water Purifying Co., 60, Wilson St., B.C.                     |
| Aquilentus, Kirkcaldy .. ..     | Steel Pipe Company, Ltd., Kirkcaldy, N.B.                                      |
| Aquosity, London .. ..          | Simpson James, & Co., Ltd., 101, Grosvenor Rd., Pimlico, S.W.                  |
| Archdale, Birmingham .. ..      | Archdale Jas., & Co., Ltd., Ledsam St., Birmingham                             |
| Archogg, Newcastle .. ..        | Hogg-Car Construction Co., Ltd., Akenside House, Newcastle-on-Tyne             |
| Armstrongs, Birmingham .. ..    | Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham                       |
| Asbestos, Bradford .. ..        | Cresswells' Ltd., Wellington Mills, Bradford                                   |
| Assmolders, Schiedam .. ..      | Smulders A. F., Schiedam, Rotterdam, Holland                                   |
| Assistance, Coventry .. ..      | Monk Engineering Co., Ltd., High St., Coventry                                 |
| Asteroidal, Rugby .. ..         | British Thomson-Houston Co., Ltd., Rugby                                       |
| Atlas, Birmingham .. ..         | Figgott Thos., & Co., Ltd., Birmingham                                         |
| Atlas, Gloucester .. ..         | Fielding & Platt, Ltd., Atlas Works, Gloucester                                |
| Atlas, Sheffield .. ..          | Brown John, & Co., Ltd., Sheffield                                             |

| TELEGRAPHIC ADDRESS.                     | NAME AND ADDRESS OF ADVERTISER.                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------------|
| Austinette, Wesdo, London ..             | Austin Motor Co., Ltd., 479-483, Oxford St., W.                                         |
| Autofirex, Nordo, London ..              | Vaughan Engineering Works, Ltd., 22, Cross St., Islington, N.                           |
| Automatic, Leeds .. ..                   | Leeds Tool & Manufacturing Co., Ltd., 121, Elland Rd., Leeds                            |
| Autometal, Westcent, London ..           | White E. T., & Co., Windsor House, Kingsway, W.C.                                       |
| Autovent, Vic., London ..                | Wolsley Motors, Ltd., York St., Westminster, S.W.                                       |
| Aveling, Rochester ..                    | Aveling & Porter, Ltd., Rochester                                                       |
| Avery, Birmingham ..                     | Avery W. T., Ltd., Soho Foundry, Birmingham                                             |
| Bagnall, Stafford .. ..                  | Bagnall W. G., Ltd., Castle Engine Works, Stafford                                      |
| Baldwin, Philadelphia .. ..              | Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, [Pa., U.S.A.]        |
| Balmforth, Luton .. ..                   | Balmforth T., & Co., Ltd., Luton                                                        |
| Barclayson, Kilmarnock ..                | Barclay Andrew, Sons, & Co., Ltd., Caledonia Works, Kilmarnock                          |
| Barry, Aberdeen .. ..                    | Barry, Henry, & Co., Ltd., Aberdeen                                                     |
| Battery, Seily Oak .. ..                 | Birmingham Battery & Metal Co., Ltd., Birmingham                                        |
| Bayliss, Wolverhampton ..                | Bayliss, Jones & Bayliss, Ltd., Wolverhampton                                           |
| Beacon, Salford .. ..                    | Bailey W. H., & Co., Ltd., Albion Works, Salford, Manchester                            |
| Beardmore, Glasgow .. ..                 | Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow                           |
| Beardshaw, Sheffield ..                  | Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield                                |
| Beaucoup, Kensal, London ..              | Glacier Anti-Friction Metal Co., Ltd., Waldo Rd., Willesden Junction, [N.W.]            |
| Beebee, Fallings Heath, Wednesbury .. .. | Beebee A., Wednesbury                                                                   |
| Belfry or Asbestos, London ..            | Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.E.                              |
| Bellamy, London .. ..                    | Bellamy John, Ltd., Millwall, E.                                                        |
| Belliss, Birmingham .. ..                | Belliss & Morcom, Ltd., Ledlam St. Works, Birmingham                                    |
| Belling, Cardiff .. ..                   | Lewis & Tylor, Ltd., Cardiff                                                            |
| Benns, Little Hulton, Bolton ..          | Benns Ed., & Co., Ltd., Little Hulton, Bolton                                           |
| Bepco, Glasgow .. ..                     | British Electric Plant Co., Ltd., 78, St. Vincent St., Glasgow                          |
| Bergius, Glasgow .. ..                   | Bergius Launch & Engine Co., Ltd., Dobbies Loan, Glasgow                                |
| Berrys, Sowerby Bridge ..                | Berry F., & Sons, Sowerby Bridge, Yorkshire                                             |
| Bertram, Edinburgh .. ..                 | Bertrams Limited, Sciennes, Edinburgh                                                   |
| Bessemer, Leeds .. ..                    | Scott Walter, Ltd., Leeds Steel Works, Leeds                                            |
| Bessemer, Sheffield .. ..                | Bessemer Henry, & Co., Ltd., Sheffield                                                  |
| Bird, London .. ..                       | Bolling & Lowe, 2, Laurence Pountney Hill, B.C.                                         |
| Birkett, Hanley .. ..                    | Birkett T. M., & Sons, Ltd., Hanley, Staffordshire                                      |
| Blackall, New York .. ..                 | Blackall F. S., Woolworth Tower, New York, U.S.A.                                       |
| Blackstone, Stamford .. ..               | Blackstone & Co., Ltd., Rutland Works, Stamford                                         |
| Blakeboroughs, Brighouse ..              | Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse                               |
| Blazon, Glasgow .. ..                    | Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow                           |
| Blooms, Sheffield .. ..                  | Dunford & Elliott (Sheffield), Ltd., Attercliffe Wharf, Sheffield                       |
| Blundell, Pop., London ..                | Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E. |
| Bodley, Exeter .. ..                     | Bodley Bros. & Co., Old Quay Foundry, Exeter                                            |
| Boiler, Glasgow .. ..                    | Wilson William, & Co., Lilybank Boiler Works, Glasgow                                   |
| Boiler, Wolverhampton ..                 | Thompson John, Wolverhampton, Eng.                                                      |
| Boilers, Halifax .. ..                   | Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.                                      |
| Boilers, Loughborough ..                 | Coltman Walter W., & Co., Ltd., Central Boiler Works, Loughborough                      |
| Boits, Birmingham .. ..                  | Phoenix Bolt and Nut Co., Handsworth, near Birmingham                                   |
| Boits, Manchester .. ..                  | Marsden S., & Son, Ltd., London Rd., Manchester                                         |
| Bonaccord, Glasgow .. ..                 | Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow, W.                              |
| Borings, Birmingham ..                   | Rapid Magnetising Machine Co., Ltd., The Crescent, Birmingham                           |
| Borough Engineer, Wolverhampton .. ..    | Wolverhampton, Borough of, Town Hall, Wolverhampton                                     |
| Boss, Leicester .. ..                    | British Steam Specialities, Ltd., Bedford St., Leicester                                |

| TELEGRAPHIC ADDRESS.                  | NAME AND ADDRESS OF ADVERTISER.                                                          |
|---------------------------------------|------------------------------------------------------------------------------------------|
| Bowran, Newcastle-on-Tyne .. ..       | Bowran Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne                 |
| Brailme, Hunslet, Leeds .. ..         | Brailme T. F., & Co., Ltd., Hunslet, Leeds                                               |
| Brake, Manchester .. ..               | Gresham & Craven, Ltd., Salford, Manchester                                              |
| Brakes, West Bromwich .. ..           | Electro Mechanical Brake Co., Ltd., Eagle Works, West Bromwich                           |
| Brampton, Birmingham .. ..            | Brampton Bros., Ltd., Birmingham                                                         |
| Brassware, Birmingham .. ..           | Hooper, Edgar A. J., Ltd., 21-37, New Summer St., Birmingham                             |
| Brecknell, Bristol .. ..              | Brecknell, Munro & Rodgers, Ltd., Thrissell St., Bristol                                 |
| Bridge, Motherwell .. ..              | Motherwell Bridge Co., Ltd., Motherwell, N.B.                                            |
| Bridgeport, Conn. .. ..               | Nilson A. H., Machine Co., Bridgeport, Conn., U.S.A.                                     |
| Brins Oxygen, London .. ..            | British Oxygen Co., Elverton St., Westminster, S.W.                                      |
| Briqueite, Leeds .. ..                | Briqueite Machinery, Ltd., Charnmouth St., Leeds                                         |
| Britannia, Manchester .. ..           | Muir Wm., & Co., Ltd., Sherbourne St., Manchester                                        |
| Britanlos, London .. ..               | British Niclausse Boiler Co., Ltd., Caxton House, Westminster, S.W.                      |
| Broadbent, Huddersfield .. ..         | Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield                                 |
| Bronplat, Forest, London .. ..        | Butler-Jones (Nameplates), Ltd., Dartmouth Works, Forest Hill, S.E.23                    |
| Bronze, Glasgow .. ..                 | Steven & Struthers, Kelvinhaugh, Glasgow                                                 |
| Bronze, Longport .. ..                | Billington & Newton, Ltd., Longport, Stoke-on-Trent                                      |
| Broom, High Wycombe .. ..             | Broom & Wade, Ltd., High Wycombe                                                         |
| Brotherhood, Parl., London .. ..      | Brotherhood Peter, Ltd., 53, Parliament St., S.W.                                        |
| Brotherton, Leeds .. ..               | Brotherton & Co., Ltd., City Chambers, Leeds                                             |
| Browhoist, Cleveland, U.S.A. .. ..    | Brown Hoisting Machinery Co., Cleveland, Ohio, U.S.A.                                    |
| Bullivants, London .. ..              | Bullivant & Co., Ltd., 72, Mark Lane, B.C.                                               |
| Burnet, Glasgow .. ..                 | Burnet Lindsay, & Co., Moor Park Boiler Works, Govan, Glasgow                            |
| Burys, Sheffield .. ..                | Burys & Co., Ltd., Sheffield                                                             |
| Butler, Halifax, England .. ..        | Butler J., & Co., Victoria Ironworks, Halifax, Eng.                                      |
|                                       |                                                                                          |
| Cables, Manchester .. ..              | Glover W. T., & Co., Ltd., Trafford Park, Manchester                                     |
| Calidad, Glasgow .. ..                | McKie & Baxter, Copland Works, Govan, Glasgow                                            |
| California, Stoke-on-Trent .. ..      | Kerr, Stuart & Co., Ltd., Stoke-on-Trent                                                 |
| Camsas, Halifax .. ..                 | Campbell Gas Engine Co., Ltd., Halifax, England                                          |
| Cammellaird, London .. ..             | Cammell Laird & Co., Ltd., 3, Central Bldgs., Westminster, S.W.                          |
| Cammellaird, Sheffield .. ..          | Cammell Laird & Co., Ltd., Cyclops Steel and Iron Works, Sheffield                       |
| Capper, Darlington .. ..              | Robson E. Capper & Co., Ltd., 1, North Hill, Darlington                                  |
| Carburine, Avenue, London .. ..       | Gas Lighting Improvement Co., Ltd., Salisbury House London Wall, E.C.                    |
| Carriage, Smethwick, Birmingham .. .. | Birmingham Railway Carriage & Wagon Co., Ltd., Smethwick, Birmingham                     |
| Castings, Sheffield .. ..             | Brightside Foundry & Engineering Co., Ltd., Sheffield                                    |
| Caulking, Parl., London .. ..         | Consolidated Pneumatic Tool Co., Ltd., Palace Chambers, 9, Bridge St., Westminster, S.W. |
| Centumvir, Finsquare, London .. ..    | Sterns Ltd., Finsbury Square, E.C.                                                       |
| Cepators, Kincross, London .. ..      | Consulting Patent Agency, 253, Gray's Inn Rd., W.C.                                      |
| Chadburn, Liverpool .. ..             | Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs.                        |
| Chalas, Coventry .. ..                | Coventry Chain Co., Ltd., Coventry                                                       |
| Channeled, Derby .. ..                | Aiton & Co., Ltd., Derby                                                                 |
| Chaplin, Glasgow .. ..                | Chaplin Alex., & Co., Ltd., Govan, Glasgow                                               |
| Chatwin, Birmingham .. ..             | Chatwin Thos., Ltd., Gt. Tindal St., Birmingham                                          |
| Cheaper, Char., London .. ..          | Harvey G. A., & Co. (London, Ltd.), Greenwich Metal Wks., Woolwich                       |
| Cheery, Cent, London .. ..            | Wakefield C. C., & Co., Wakefield House, 30 & 32 Cheapside, E.C.                         |
| Chief Goods, Darlington, York .. ..   | North Eastern Railway Co., York                                                          |
| Chucks, Leicester .. ..               | Jones A. A., & Shipman, Ltd., East Park Rd., Leicester                                   |
| Cleveland, Darlington .. ..           | Cleveland Bridge & Engineering Co., Ltd., Darlington                                     |
| Cliffel, Johnstone .. ..              | Clifton & Waddell, Johnstone, near Glasgow                                               |
| Clutch, Shipley .. ..                 | Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, nr. Bradford                     |

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|------------------------------|--------------------------------------------------------------------------|
| Cockburn, Glasgow ..         | Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                    |
| Cogs, Birmingham ..          | Lloyd Richard, & Co., Galton Works, Steelhouse Lane, Birmingham          |
| Cole, Bradford ..            | Cole, Marchant & Morley, Ltd., Bradford                                  |
| Coles, Derby ..              | Coles H. J., Ltd., London Crane Works, Derby                             |
| Colville, Motherwell ..      | Colville David, & Sons, Ltd., Dalzell Steel & Iron Works, Motherwell,    |
| Colville, London ..          | Colville David, & Sons, Ltd., 54, Old Broad St., E.C. [near Glasgow      |
| Comorris, Loughborough ..    | Morris Herbert, Ltd., Empress Works, Loughborough, Leicestershire,       |
| Compactum, Led., London      | Kirkaldy John, Ltd., 101, Leadenhall St., E.C. 3.                        |
| Compass, Glasgow ..          | Dobbe, McInnes, Ltd., 57, Bothwell St., Glasgow                          |
| Conical, Glasgow ..          | Lindsay R. B., & Co., 38, Mair St., Plantation, Glasgow                  |
| Control, Glasgow ..          | Electric Control, Ltd., Bridgeton, Glasgow                               |
| Cooke, Sheffield ..          | Cooke William, & Co., Ltd., Tinsley Steel, Iron and Wire Rope Works,     |
| Conveyor, Accrington ..      | Conveyor & Elevator Co., Accrington, Lancashire [Sheffield               |
| Copper Co., London ..        | Broughton Copper Co., Ltd., London                                       |
| Copper Co., Manchester ..    | Broughton Copper Co., Ltd., Manchester                                   |
| Cornforth, Stoke-on-Trent    | Cornforth Ernest E., Stoke-on-Trent                                      |
| Corona, Leicester ..         | Pollard Fredk., & Co., Ltd., Corona Works, Leicester, Eng.               |
| Corrugated, Glasgow ..       | Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow |
| Corrugated, London ..        | Beldam Packing & Rubber Co., Ltd., 1 & 2, Gracechurch St., E.C.          |
| Courteous, Ennsroad, London  | Braby Fredk., & Co., Ltd., Fitzroy Works, 352-364, Euston Rd., N.W.      |
| Covers, Birmingham ..        | Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham             |
| Craddock, Wakefield ..       | Craddock Geo., & Co., Ltd., Wire Rope Works, Wakefield                   |
| Craig-Donald, Johnstone      | Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.                      |
| Cranes, Motherwell ..        | Jack Alexander, Whitegates Engineering Wks., Motherwell, Scotland        |
| Cranes, Reddish ..           | Heywood S. H., & Co., Ltd., Reddish                                      |
| Cranes, Rodley ..            | Booth Joseph, & Bros., Rodley, Leeds                                     |
| Craven, Reddish ..           | Craven Brothers (Manchester), Ltd., Vauxhall Wks., Reddish, Stockport    |
| Craven, Wakefield ..         | Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield               |
| Critmance, Finsquare, London | Critical Steel Furniture Co., Ltd., 11 & 12, Finsbury Square, E.C.2.     |
| Crofters, Bradford ..        | Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorkshire                 |
| Crosby, London ..            | Crosby Valve & Engineering Co., Ltd., 147, Queen Victoria St., E.C.      |
| Crown, Glasgow ..            | Sterne L., & Co., Ltd., Crown Ironworks, Glasgow                         |
| Crown, Gortonbrook ..        | Higginbottom & Mannoek, Ltd., West Gorton, Manchester                    |
| Cumulative, London ..        | Paterson Engineering Co., Ltd., 21, India House, Kingsway, W.C.          |
| Curtis, Bridgeport, Conn.    | Curtis & Curtis Co., 77, Garden St., Bridgeport, Conn.                   |
| Custodimus-Sowest, London    | Custodis Limited, 119, Victoria St., Westminster, S.W.                   |
| Cuticbar, Motherwell ..      | M'Kendrick W. D., & Co., Oakfield Works, Motherwell, N.B.                |
| Cutters, Birmingham ..       | Wrigley B. G., & Co., Ltd., Foundry Lane Works, Birmingham               |
| Cyclops, Gateshead ..        | Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne                           |
| Cylinders, Birmingham ..     | Tubes Ltd., Birmingham                                                   |
| Damophon, London ..          | Langdon-Davies Motor Co., 110, Cannon St., E.C.                          |
| Daniell, Birmingham ..       | Daniell S. A., Ltd., Edward St., Parade, Birmingham                      |
| Daniels, Stroud ..           | Daniels T. H. & J., Ltd., Stroud, Glos.                                  |
| Danks, Netherton, Dudley     | Danks H. & T. (Netherton), Ltd., Netherton, Dudley                       |
| Darling Sellers, Keighley    | Darling & Sellers, Ltd., Keighley                                        |
| Day Summers, Southampton     | Day, Summers & Co., Ltd., Northam Ironworks, Southampton                 |
| Degaseo, Ox., London ..      | Davis Furnace Co., 54, Rathbone Place, W.1.                              |
| Delburn, Motherwell ..       | Marshall, Fleming & Co., Ltd., Motherwell, N.B.                          |
| Delta, Eastgren, London ..   | Delta Metal Co., Ltd., East Greenwich, S.E.                              |
| Dempster, Glasgow ..         | Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow                  |
| Derwent, Birmingham ..       | Taylor & Challen, Ltd., Derwent Foundry, Birmingham                      |
| Destructor, Westrand, London | New Destructor Co., Ltd., Walter House, Bedford St., Strand, W.C.        |

| TELEGRAPHIC ADDRESS.                   | NAME AND ADDRESS OF ADVERTISER.                                        |
|----------------------------------------|------------------------------------------------------------------------|
| Dhagoba, Westrand, London ..           | Constable & Co., 10, Orange St., Leicester Sq., W.C.                   |
| Diagram, Liverpool ..                  | Hughes & Lancaster, Liverpool                                          |
| Dicker, London ..                      | Dick, Kerr & Co., Ltd., Abchurch Yard, Cannon St., E.C.                |
| Diesel-Motor, Stockholm ..             | A.-B. Diesels Motorer, Stockholm, Sweden                               |
| Distend, Vic., London ..               | Expanded Metal Co., Ltd., York Mansions, York St., Westminster, [S.W.] |
| Dockyard, Dublin ..                    | Dublin Dockyard Co., Ltd., North Wall, Dublin                          |
| Dolphin, Leeds ..                      | Campbells & Hunter, Ltd., Dolphin Foundry, Leeds                       |
| Donbowes, Vic., London ..              | Bowes, Scott & Western, Ltd., Broadway Chambers, S.W.                  |
| Donkin, Chesterfield ..                | Donkin Company, Ltd. (The Bryan), Chesterfield                         |
| Dorman, Stafford ..                    | Dorman W. H., & Co., Ltd., Stafford                                    |
| Douglas, Kirkcaldy ..                  | Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.              |
| Dredger, Port Glasgow ..               | Ferguson Brothers (Port-Glasgow), Ltd., Newark Works, Port-Glasgow     |
| Drill, Halifax ..                      | Asquith William, Ltd., Park Works, Halifax                             |
| Driving, Manchester ..                 | Renold Hans, Ltd., Progress Works, Manchester                          |
| Droberg, Smethwick ..                  | Smethwick Stamping Co., Bridge St., Smethwick, Staffs.                 |
| Drum, Bradford ..                      | Drum Engineering Co., 33, Brook St., Bradford                          |
| Dryolene, Rochurch, London ..          | Dixon's White, Ltd., Albion Wharf, Bow, E.                             |
| Dunmore, Racine ..                     | Wisconsin Electric Co., Racine, Wisconsin, U.S.A.                      |
| Durability, Birmingham ..              | Aston Brass Co. & Whitehouse, Ltd., Aston Lane, Birmingham             |
| Duplex, Hyde ..                        | Tinker, Shenton & Co., Ltd., Hyde, near Manchester                     |
| Dynamo, Bradford ..                    | Phoenix Dynamo Mfg. Co., Ltd., Thornbury Works, Bradford               |
| Dynamo, Oldham ..                      | Hall J. P., & Co., Ltd., Oldham                                        |
| Economy, Hazel Grove ..                | Mirrlees, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport            |
| Eerit, London ..                       | American Lead Pencil Co., 173 & 175, Lower Clapton Rd., N.E.           |
| Edibatt, St. James, London ..          | Edison Accumulators, Ltd., 2 & 3, Duke St., S.W. 1.                    |
| Edibrac, Sowest, London ..             | Imperial Light Limited, 123, Victoria St., S.W.                        |
| Edmeston, Patricroft ..                | Edmeston Archibald, & Sons, Ltd., Patricroft, near Manchester          |
| Efficiency, London ..                  | Leroy F., & Co., 20, Gray St., Commercial Rd., E.                      |
| Elevator, Cincinnati ..                | National Lathe Co., 15 West Second St., Cincinnati, Ohio.              |
| Elevator, Haslingden ..                | Stott S. S., & Co., Haslingden, near Manchester                        |
| Elliot Company, Cardiff ..             | Elliot George, & Co., Ltd., Cardiff                                    |
| Elliot Company, London ..              | Elliot George, & Co., Ltd., 16, Great George St., Westminster, S.W.    |
| Ellisons Ltd., Irlams-o'-th'-Height .. | Ellison W. T., & Co., Irlams-o'-th'-Height, Manchester                 |
| Elsterne, London ..                    | Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C.             |
| Elyer, Cadishead ..                    | Royles Limited, Irlam, near Manchester                                 |
| Emery, Altrincham ..                   | Luke & Spencer, Ltd., Canal Eng. Works, Altrincham                     |
| Empire, Illingworth ..                 | Whiteley James, Ltd., Eagle Works, Well Lane, Halifax                  |
| Endaxile, London ..                    | Acetylene Illuminating Co., Ltd., 268 & 270, South Lambeth Rd., S.W.   |
| Endeavour, London ..                   | Birch John, & Co., Ltd., 2, London Wall Buildings, E.C.                |
| Energy, Hull ..                        | Marted & Knott, Ltd., Burnett Avenue, Hull                             |
| Energy, Motherwell ..                  | Chambers, Scott & Co., Ltd., Motherwell                                |
| Engine, Leeds ..                       | Hunslet Engine Co., Ltd., Leeds                                        |
| Engine, Sheffield ..                   | Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield           |
| Engine, Smith, London ..               | Marshall, Sons & Co., Ltd., 79, Farringdon Rd., E.C.                   |
| Engineering, Westrand, London ..       | "Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.                |
| Engineers, Liverpool ..                | Wilson, John H., & Co., Dock Road, Birkenhead                          |
| Ensulim, London ..                     | Schmidt's Superheating Co. (1910), Ltd., 28, Victoria St., S.W.        |
| Entikosil, Vic, London ..              | Engineering Timber Co., Ltd., 11, Victoria St., S.W.                   |
| E.O.A., Birmingham ..                  | Electric & Ordnance Accessories Co., Ltd., Aston, Birmingham           |
| Epa, London ..                         | Alexander B. P., & Son, 306, High Holborn, W.C.                        |
| Epistolary, Vic., London ..            | Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.                      |

| TELEGRAPHIC ADDRESS               | NAME AND ADDRESS OF ADVERTISER.                                             |
|-----------------------------------|-----------------------------------------------------------------------------|
| Equestrian, London ..             | Bradley Pulveriser Co., 37, Walbrook, B.C.                                  |
| Essaroba, Boreh, London ..        | S.R.O. Ball-Bearing Co., 115, Southwark St., S.E.                           |
| Es wysco, Sowest, London ..       | Escher, Wyss & Co., 109, Victoria St., S.W.                                 |
| Etna, Leith ..                    | Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh                        |
| Eureka, Birmingham ..             | Wright John, & Co., Essex Works, Birmingham                                 |
| Evans, Wolverhampton ..           | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton                   |
| Evaporate, Pollokshaws ..         | Dalglish A. & W., West of Scotland Boiler Wks., Pollokshaws, Glasgow        |
| Everything, Birmingham ..         | Mountford Fredk., Ltd., Fremo Works, Lifford, Birmingham                    |
| Exactitude, Birmingham ..         | Wolsley Motors, Ltd., Adderley Park, Birmingham                             |
| Excavator, Leeds ..               | Whitakers (Engineers), Ltd., Horsforth, Leeds                               |
| Excavator, Leicester ..           | Whitaker D., 1, Union St., Leicester                                        |
| Exhaust, Romiley ..               | Davies & Metcalf, Ltd., Romiley, Manchester                                 |
| Exmetcon, Birmingham ..           | Walls, Ltd., Crown Works, Fazeley St., Birmingham                           |
| Expansion, Glasgow ..             | Glasgow Railway Engineering Co., Ltd., Govan, Glasgow                       |
| Explanatus, London ..             | Grimm Charles & Co., Ltd., Exeter St., Strand, W.C.                         |
| Extrusion, Birmingham ..          | Delta Metal Co., Ltd., Dartmouth St., Birmingham                            |
|                                   |                                                                             |
| Fabley, Birmingham ..             | Fairley James, & Sons, Old Mint, Shadwell St., Birmingham                   |
| Fawcett, Liverpool ..             | Fawcett, Preston & Co., Ltd., Liverpool                                     |
| File Forge, Kirkcaldy ..          | File Forge Co., Ltd., Kirkcaldy, Scotland                                   |
| Figee-Haarlem ..                  | Figee Ltd., Haarlem, Holland                                                |
| Findlay, Motherwell ..            | Findlay Alex., & Co., Ltd., Motherwell, near Glasgow                        |
| Firno, Glasgow ..                 | Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow                    |
| Firois, London ..                 | Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.                     |
| Firth, Sheffield ..               | Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield                         |
| Flamma, London ..                 | Acetylene Corporation, Ltd., 49, Victoria St., S.W.                         |
| Flamspoint, Rothlow, London ..    | Adams British Oil Co., Ltd., Deptford, S.E.                                 |
| Flower, Wimborne ..               | Flower J. W., & Co., Eclipse Works, Wimborne, Dorset                        |
| Forge, Dumbarton ..               | Dennystown Forge Co., Dumbarton                                             |
| Forge, Kirkstall ..               | Kirkstall Forge Co., Ltd., Leeds                                            |
| Forgings, Glasgow ..              | Gartsherrie Engineering & Forge Co., 50, Wellington St., Glasgow            |
| Forward, Sheffield ..             | Ward Thos. W., Ltd., Albion Works, Sheffield                                |
| Foster, Instrument, Letchworth .. | Foster Instrument Co., Letchworth, Herts.                                   |
| Fosters, Wednesbury ..            | Foster Brothers, Ltd., Wednesbury                                           |
| Foundry, Bolton ..                | Entwistle & Gass, Ltd., Bolton                                              |
| Foundry, Bradford ..              | Bever, Dorling & Co., Ltd., Bowling Ironworks, Bradford                     |
| Foundry, Manchester ..            | Wallwork Henry, & Co., Ltd., Manchester                                     |
| Foundry, Yeovil ..                | Westland Foundry (Branch of Petters, Ltd.), Westland Siding, Yeovil, G.W.R. |
| Fourteen, Wall St., New York ..   | Covington Machine Co., 14, Wall St., New York, U.S.A.                       |
| Fowler, Leeds ..                  | Fowler John, & Co. (Leeds), Ltd., Steam Plough Works, Leeds                 |
| France, Glasgow ..                | France & Morgan, Whitefield Brass Works, Govan, Glasgow                     |
| Fresco, Glasgow ..                | Gas Power & By-Products Co., Ltd., 116, Hope St., Glasgow                   |
| Fribald, London ..                | Baldwin Locomotive Works, The, 34, Victoria St., S.W.                       |
| Friction, Chapel-en-le-Frith ..   | Herbert Frood Company, Ltd., Sovereign Mills, Chapel-en-le-Frith            |
| Fugal, Glasgow ..                 | Watson Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow                 |
| Fuller Horsey, London ..          | Fuller, Horsey, Sons & Cassell, 11, Billiter Square, E.C.                   |
|                                   |                                                                             |
| Galloway, Manchester ..           | Galloways Limited, Manchester                                               |
| Galvanizer, Liverpool ..          | Maxwell & Fage, 49, Sefton St., Liverpool                                   |
| Gandah, Glasgow ..                | Harvey G. & A., Ltd., Govan, Glasgow                                        |



| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                              |
|--------------------------------------|------------------------------------------------------------------------------|
| Garrett, Leiston .. ..               | Garrett R., & Sons, Ltd., Leiston Works, Suffolk                             |
| Gas, Leeds .. ..                     | Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds                     |
| Gaseous, London .. ..                | Dowson & Mason Gas Plant Co., Ltd., 39, Victoria St., S.W.                   |
| Gaserics, Westcent, London .. ..     | Fletcher, Russell & Co., Ltd., 15, Fisher St., Southampton Row, W.C.         |
| Gasholder, Stockton-on-Tees .. ..    | Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees                         |
| Gasify, Levenshulme .. ..            | Dowson & Mason Gas Plant Co., Ltd., Levenshulme, Manchester                  |
| Gasupreme, London .. ..              | British Commercial Gas Association, 47, Victoria St., S.W.                   |
| Gastoves, Warrington .. ..           | Richmond Gas Stove & Motor Co., Ltd., Academy St., Warrington                |
| Gazonner, London .. ..               | Humphrey Pump Co., Ltd., 38, Victoria St., S.W.                              |
| Gearing, Huddersfield .. ..          | Brown David, & Sons (Huddersfield), Ltd., Park Works, Lockwood, Huddersfield |
| Gears, Gateshead .. ..               | Reay Gearworks, Ltd., Gateshead-on-Tyne                                      |
| Gears, Hyde .. ..                    | Turbine Gears, Ltd., Hyde                                                    |
| Gebulzer, London .. ..               | Sulzer Brothers, 30, Norfolk St., Strand, W.C.                               |
| Gibbins, Birmingham .. ..            | Gibbins, R. C., & Co., Berkley St., Birmingham                               |
| Gibbons, Lower-Gornal .. ..          | Gibbons Bros., Ltd., Dibdale Works, Dudley, Worc.                            |
| Giftedness, London .. ..             | Imperial Motor Industries, Ltd., 11, Denmark St., W.C.                       |
| Gilman, Lightwoods, Birmingham .. .. | Gilman Frank, 62, Lightwoods Hill, Birmingham                                |
| Girder, Motherwell .. ..             | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell                 |
| Glweir, Glasgow .. ..                | Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow                          |
| Glasses, Newton Heath .. ..          | Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester                |
| Glenfield, Kilmarnock .. ..          | Glenfield & Kennedy, Ltd., Kilmarnock, N.B.                                  |
| Globe, Derby .. ..                   | Roe & Harrison, Ltd., Derby                                                  |
| Grace, Thrapston .. ..               | Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston                         |
| Grafton, Bedford .. ..               | Grafton & Co., Bedford                                                       |
| Graftonian, London .. ..             | Grafton & Co., 120, Cannon St., E.C.                                         |
| Gramercy, London .. ..               | Le Bas Edward, & Co., Dock House, Billiter St., E.C.                         |
| Graysilver, Silver, London .. ..     | India Rubber, Gutta Percha, & Telegraph Works Co., Ltd., Silver-             |
| Greaves, Harbury .. ..               | Greaves, Bull & Lakin, Ltd., Harbury, Leamington [town, E.                   |
| Greasley, Manchester .. ..           | Smith & Coventry, Ltd., Gresley Ironworks, Ordsal Lane, Manchester           |
| Greece, Birmingham .. ..             | Greece, Greece & Son, Ltd., Sheepcote St., Birmingham                        |
| Grieve, Motherwell .. ..             | Grieve John, & Co., Motherwell, Scotland                                     |
| Guest, Rotherham .. ..               | Guest & Chrimes, Rotherham                                                   |
| Gunther, Oldham .. ..                | Gunther W., & Sons, Central Works, Oldham                                    |
| Guttagerch, Toronto .. ..            | Gutta Percha & Rubber, Ltd., Toronto, Canada                                 |
| Gwynne, London .. ..                 | Gwynnes Ltd., Hammersmith Ironworks, W.                                      |
|                                      |                                                                              |
| Hadfield, Sheffield .. ..            | Hadfields Limited, Hecla Works, Sheffield                                    |
| Haigh, Oldham .. ..                  | Haighs (Oldham) Ltd., Globe Ironworks, Plane St., Oldham                     |
| Halden, Manchester .. ..             | Halden J., & Co., Ltd., 8, Albert Square, Manchester                         |
| Hale, Founders, Walsall .. ..        | Hale Thos. L., Ltd., Walsall, Staffordshire                                  |
| Hall, Engineers, Peterborough .. ..  | Hall J. P., & Sons, Ltd., Peterborough                                       |
| Hallford, Dartford .. ..             | Hall J. & E., Ltd., Dartford, Kent                                           |
| Hallford, London .. ..               | Hall J. & E., Ltd., 10, St. Swithin's Lane, E.C.                             |
| Hardenling, Manchester .. ..         | Brayshaw Furnaces & Tools, Ltd., Mulberry St., Hulme, Manchester             |
| Hart, Blackburn .. ..                | Hart Thomas, Blackburn, England                                              |
| Hartnell, Leeds .. ..                | Hartnell, Wilson & Co., Ltd., Volt Works, Kirkstall Rd., Leeds               |
| Hathorn, Leeds .. ..                 | Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds                               |
| Haughton, Bilgate, London .. ..      | Haughton's Patent Metallic Packing Co., Ltd., 30, St. Mary-at-Hill E.C.      |
| Hayes, Stony Stratford .. ..         | Hayes Edward, Watling Works, Stony Stratford, Wolverton                      |
| Heap, Ltd., Ashton-under-Lyne .. ..  | Heap Jos. & Co., Ltd., Ashton-under-Lyne                                     |
| Heenan, Manchester .. ..             | Heenan & Froude, Ltd., 4, Chapel Walks, Manchester                           |
| Heenan, Worcester .. ..              | Heenan & Froude, Ltd., Worcester Engineering Works, Worcester                |

| TELEGRAPHIC ADDRESS.                | NAME AND ADDRESS OF ADVERTISER.                                           |
|-------------------------------------|---------------------------------------------------------------------------|
| Henry Crowther, Cleckheaton .. ..   | Crowther Henry, & Sons, Ltd., Cleckheaton, Yorkshire                      |
| Heroic, Reddish .. ..               | Rowland B. R., Ltd., & Co., Climax Works, Reddish, nr. Manchester         |
| Hexagon, Leeds .. ..                | Kirby Banks Screw Co., Ltd., Leeds                                        |
| Hick, Bolton .. ..                  | Hick, Hargreaves & Co., Ltd., Soho Works, Bolton                          |
| Higbro, Birmingham .. ..            | Higgs Bros., Balsall Heath, Birmingham                                    |
| Highgate, Shettleston .. ..         | Follock, Macnab & Highgate, Shettleston, Glasgow                          |
| Highlow, Glasgow .. ..              | Low, Archibald & Sons, Ltd., 28A, Renfield St., Glasgow                   |
| Hindley, Bourton-Dorset .. ..       | Hindley E. S., & Sons, Bourton, Dorset                                    |
| Hippique, Sower, London .. ..       | Young & Co. (Westminster), Ltd., 161, Victoria St., Westminster, S.W.1    |
| Hobnalls, London .. ..              | Hobdell, Way & Co., Ltd., St. John's House, 124-5, Minories, B.           |
| Hoffmann, Chelmsford .. ..          | Hoffmann Manufacturing Co., Ltd., Chelmsford                              |
| Holting, Glasgow .. ..              | Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow                |
| Holcroft's, Bilston .. ..           | Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire          |
| Holmes, Newcastle-on-Tyne .. ..     | Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne                     |
| Holpebs, Gloucester .. ..           | British Carbonizing Co., Ltd., Vulcan Works, Gloucester                   |
| Holt, Willetts, Cradley Heath .. .. | Holt & Willetts, Lion Works, Cradley Heath                                |
| Hoops, Motherwell .. ..             | Motherwell Iron & Steel Co., Motherwell, N.B.                             |
| Hopkinson, Huddersfield .. ..       | Hopkinson J., & Co., Ltd., Huddersfield                                   |
| Hornsby, Grantham .. ..             | Hornsby R., & Sons, Ltd., Spittlegate Iron Works, Grantham [E.C.          |
| Hornsby, London .. ..               | Hornsby R., & Sons, Ltd., Hornsby House, 75B, Queen Victoria St.,         |
| Horology, Birmingham .. ..          | Cooke James, & Son, 8 and 9, Wrentham Street, Birmingham                  |
| Horsepower, Cannon, London .. ..    | Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C.         |
| Howden, Glasgow .. ..               | Howden James, & Co., Scotland St., Glasgow                                |
| Howell, Sheffield .. ..             | Howell & Co., Ltd., Brook Steel Works, Sheffield                          |
| Hudson, Coatbridge .. ..            | Hudson Thomas, Ltd., Sheepfold Works, Coatbridge, N.B.                    |
| Humidity, Bradford .. ..            | Davenport Engineering Co., Ltd., Harris St., Bradford                     |
| Humphage, Cainscross .. ..          | Dudbridge Iron Works, Ltd., Dudbridge, near Stroud                        |
| Huwood, Fen., London .. ..          | Wood H., & Co., Ltd., 65, Fenchurch St., E.C.                             |
| Hydraulic, Leeds .. ..              | Middleton Robt., Sheepscar Foundry, Leeds                                 |
| Hydraulic, Liverpool .. ..          | Robertson Thos. R., 7, Hurst St., Liverpool                               |
| Hydromotor, Vic., London .. ..      | Pitman Percy, 25, Victoria St., Westminster, S.W.                         |
| Hydrostatic, London .. ..           | East Ferry Road Engineering Works Co., Ltd., Millwall, E.                 |
| Hydroturbo, Wolverhampton .. ..     | Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Eng.             |
| Hypostile, Glasgow .. ..            | Boyle R., & Son, 110, Bothwell St., Glasgow                               |
| Hypostile, London .. ..             | Boyle R., & Son, 64, Holborn Viaduct, E.C.                                |
|                                     |                                                                           |
| Igniter, Birmingham .. ..           | Lodge Sparking Plug Co., Ltd., Wrentham St., Birmingham                   |
| Igranite, London .. ..              | Igranite Electric Co., Ltd., 147, Queen Victoria St., E.C.                |
| Impression, Newcastle-on-Tyne .. .. | United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne      |
| Incorrupt, Cent., London .. ..      | Caple Asbestos Company, Ltd., 23, King St., E.C.                          |
| Indicator, Glasgow .. ..            | Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St. Glasgow |
| Indicator, Manchester .. ..         | Kirk Wheatley, Price & Co., Albert Square, Manchester                     |
| Indices, London .. ..               | Kirk Wheatley, Price & Co., 46, Watling St., E.C.                         |
| Induction, Birmingham .. ..         | Ellison George, Wellhead Lane Works, Perry Barr, Birmingham               |
| Ingenuity, Glasgow .. ..            | Bromell Patents Co., Ltd., 62, Robertson St., Glasgow                     |
| Ingersoll, London .. ..             | Ingersoll-Rand Co., 165, Queen Victoria Street, E.C.                      |
| Ingot, Wishaw .. ..                 | Glasgow Iron & Steel Co., Ltd., Wishaw Iron & Steel Works, Wishaw         |
| Ingot, Newcastle-on-Tyne .. ..      | Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne                   |
| Insatiable, London .. ..            | American Steel Foundries, 5, Laurence Pountney Hill, E.C.                 |
| Inspect, London .. ..               | Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., S.W.              |
| Instrument, Cambridge .. ..         | Cambridge Scientific Instrument Co., Ltd., Cambridge                      |
| Insulator, Prescot .. ..            | British Insulated & Helsby Cables, Ltd., Prescot, Lancashire              |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                      |
|---------------------------------|----------------------------------------------------------------------|
| Integral, Westcent, London ..   | Columbia Steel & Engineering Co., Ltd., Regent House, Kingsway, W.C. |
| Intensifier, London ..          | Middleton Robt., 22, Martin's Lane, Cannon St., E.C.                 |
| Intersection, London ..         | Piggott Thos. & Co., Ltd., 63, Queen Victoria St., E.C.              |
| Iron, Liverpool ..              | James T., & Co., Liverpool                                           |
| Ironheads, London ..            | Notcutt, Walter F., Ltd., 8, White St., Moorfields, E.C.             |
| Ironworks, Butterley ..         | Butterley Co., Ltd., Butterley                                       |
|                                 |                                                                      |
| Jackson, Claycross ..           | Clay Cross Co., Clay Cross, near Chesterfield                        |
| Jacobchuck, Hartford ..         | Jacobs Manufacturing Co., Hartford, Conn., U.S.A.                    |
| James Keith, London ..          | Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.       |
| Jardine, Nottingham ..          | Jardine John, Deering St., Nottingham                                |
| Jenkins, Retford ..             | Jenkins W. J., & Co., Ltd., Beehive Works, Retford, Notts.           |
| Jenkins, Rotherham ..           | Jenkins R., & Co., Rotherham, Eng.                                   |
| Jenorton, Westcent, London ..   | Böving & Co., Ltd., Imperial Buildings, 56, Kingsway, W.C.           |
| Joining, Ardrossan ..           | Metallic Manufacturing Co., Ltd., Ardrossan                          |
|                                 |                                                                      |
| Kaye, Southam ..                | Kaye & Co., Ltd., Southam Works, Rugby                               |
| Kearns, Altrincham ..           | Kearns H. W., & Co., Ltd., Broadheath, near Manchester               |
| Keay, Birmingham ..             | Keay E. C. & J., Ltd., Corporation St., Birmingham                   |
| Kelvin, Cannon, London ..       | Main A. J., & Co., Ltd., 31, Budge Row, E.C. 4.                      |
| Kenyon, Dukinfield ..           | Kenyon Wm. & Sons, Ltd., Dukinfield, Manchester                      |
| Kern, Aarau ..                  | Kern & Co., Aarau, Switzerland                                       |
| Kernamat, London ..             | Kern & Co., Peninsular House, 28, Monument St., E.C.                 |
| Keystone, Glasgow ..            | Positive Lock Washer Co., 118-122, James Watt St., Glasgow           |
| Kilbowie, London ..             | Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E.            |
| Komerkars, Luton ..             | Commercial Cars, Ltd., Luton                                         |
|                                 |                                                                      |
| Lamb, Lye ..                    | Hingley & Lamb, Ltd., Stour Works, Lye, Stourbridge                  |
| Laminated, Glasgow ..           | Hendry James, Laminated Leather Works, Bridgeton, Glasgow            |
| Land, Grantham ..               | Grantham Boiler & Crank Co., Ltd., Grantham                          |
| Lang, Johnstone ..              | Lang John, & Sons, Johnstone, N.B.                                   |
| Lapweld, Glasgow ..             | Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow                     |
| Lathe, Coventry ..              | Herbert Alfred, Ltd., Coventry                                       |
| Lathe, Illingworth ..           | Smith, Barker, Willson & Co., Halifax                                |
| Lathes, Birmingham ..           | Taylor Charles (Birmingham), Ltd., Bartholomew Square, Birming-      |
| Lathes, Felling ..              | Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne [ham             |
| Lathes, Hyde ..                 | Macnab John, Mary St., Hyde                                          |
| Lathes, Stoughton ..            | Drummond Brothers, Ltd., Engel Works, near Guildford                 |
| Leathers Company, Altrincham .. | Leathers Company (Altrincham), Limited, Altrincham, Manchester       |
| Lees, Hollinwood ..             | Lees T. & R., Ltd., Hollinwood, near Manchester                      |
| Lenox, Millwall ..              | Brown, Lenox & Co. (London), Ltd., Poplar, E.                        |
| Lewis, Wolverhampton ..         | Lewis E., & Sons, Wolverhampton                                      |
| Lias, London ..                 | Greaves, Bull & Lakin, Ltd., 9, Grove Rd. Bridge, Marylebone, N.W.   |
| Lidgerwood, London ..           | Lidgerwood Mfg. Co., Friars House, New Broad St., E.C.               |

| TELEGRAPHIC ADDRESS.                  | NAME AND ADDRESS OF ADVERTISER.                                                                       |
|---------------------------------------|-------------------------------------------------------------------------------------------------------|
| Lifter, Coventry .. ..                | Bretts Patent Lifter Co., Ltd., Coventry                                                              |
| Lifting, Leicester .. ..              | Taylor & Hubbard, Leicester                                                                           |
| Lignum, Manchester .. ..              | Southern James W., & Son, Ltd., Store St., Manchester                                                 |
| Lilleshall, Oakengates .. ..          | Lilleshall Co., Ltd., Oakengates, Shropshire                                                          |
| Lionelle, London .. ..                | Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E.                                        |
| Lloyds, Birmingham .. ..              | Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham                                               |
| Lobnitz, Renfrew .. ..                | Lobnitz & Co., Ltd., Renfrew, Scotland                                                                |
| Lockean, London .. ..                 | Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.                                                       |
| Lockfast, London .. ..                | Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C.                                           |
| Loco, Bristol .. ..                   | Avonside Engine Co., Ltd., Bristol                                                                    |
| Loco, Glasgow .. ..                   | North British Locomotive Co., Ltd., Administrative Building, 110, Flemington St., Springburn, Glasgow |
| Loco, Gorton .. ..                    | Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester                                                |
| Loco, Leeds .. ..                     | Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds                                                  |
| Locomotive, Newcastle .. ..           | Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne                                               |
| Logic, Birmingham .. ..               | McGowan, Wild & Co., Hurst St., Birmingham                                                            |
| Longmans, London .. ..                | Longmans, Green & Co., 39, Paternoster Row, E.C.                                                      |
| Lumby, Greetland .. ..                | Lumby, Son & Wood, Ltd., Greetland, near Halifax                                                      |
| Lunken, London .. ..                  | Lunken Company, Ltd., 35, Great Dover St., S.E.                                                       |
| Lustros, London .. ..                 | Graphite Products, Ltd., 218-220, Queen's Rd., Battersea, S.W.                                        |
| Lymnicalia, Vic., London .. ..        | Lynn Chemical Eng. Co., Ltd., 40, Westminster Palace Gardens, S.W.                                    |
| Lyncean, London .. ..                 | Contraflo Condenser & Kinetic Air Pump Co., Ltd., 3, Central Buildings, Westminster, S.W.             |
| Lysaght, Bristol .. ..                | Lysaght John, Ltd., St. Vincent Ironworks, Bristol                                                    |
| Machinery, Birmingham .. ..           | Hands John, & Sons, Ltd., Cardigan Works, Birmingham                                                  |
| Machinery, Dursley .. ..              | Lister R. A., & Co., Ltd., Dursley, Glos.                                                             |
| McKechnie, Birmingham .. ..           | McKechnie Brothers, Ltd., Rotton Park St., Birmingham                                                 |
| Mackslg, London .. ..                 | McKenzie & Holland, Ltd., 58, Victoria St., S.W.                                                      |
| MacLellan, Glasgow .. ..              | MacLellan P. & W., Ltd., Clutha Works, Glasgow                                                        |
| MacLellan, London .. ..               | MacLellan P. & W., Ltd., 108A, Cannon St., E.C.                                                       |
| Macnab, Woodley .. ..                 | Fellock & Macnab, Ltd., Bredbury, Stockport                                                           |
| Macnall, Glasgow .. ..                | McNeill C., Ltd., Kinning Park Ironworks and Hydraulic Forge, Glasgow                                 |
| Macnic, Glasgow .. ..                 | Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow                                      |
| Magnet, Manchester .. ..              | Electromotors, Ltd., Openshaw, Manchester                                                             |
| Magnoller, London .. ..               | Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.                 |
| Maharg, Providence .. ..              | Graham Manufacturing Co., Providence, Rhode Island                                                    |
| Maiden, Hyde .. ..                    | Malden & Co., Ltd., Hyde, Cheshire                                                                    |
| Maaseable, London .. ..               | Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W.                                       |
| Manlove, London .. ..                 | Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.                                            |
| Manlove, Nottingham .. ..             | Manlove, Allott & Co., Ltd., Nottingham                                                               |
| Manning, Leeds .. ..                  | Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds                                                |
| Marr, Sunderland .. ..                | Sunderland Forge & Eng. Co., Ltd., Pallion, Sunderland                                                |
| Marsden, Leeds .. ..                  | Marsden H. R., Ltd., Soho Foundry, Leeds                                                              |
| Marshall, Gainsborough .. ..          | Marshall, Sons & Co., Ltd., Gainsborough                                                              |
| Masonica, Boston, U.S.A. .. ..        | Mason Regulator Co., Boston, Mass., U.S.A.                                                            |
| Maseys, Openshaw .. ..                | Massey B. & S., Ltd., Openshaw, Manchester                                                            |
| Materials, Birmingham .. ..           | Canning W., & Co., Lustre Works, Birmingham                                                           |
| Mather or Sprinkler, Manchester .. .. | Mather & Platt, Ltd., Park Works, Manchester                                                          |

| TELEGRAPHIC ADDRESS.                        | NAME AND ADDRESS OF ADVERTISER.                                                            |
|---------------------------------------------|--------------------------------------------------------------------------------------------|
| Maudslay, Coventry .. ..                    | Maudslay Motor Co., Ltd., Parkside, Coventry                                               |
| Meldrum, Altrincham .. ..                   | Meldrums Ltd., Timperley, near Manchester                                                  |
| Meliss, London .. ..                        | Kerr, Stuart & Co., Ltd., 5, Broad St. Place, E.C.                                         |
| Melloid, Yoker .. ..                        | Bull's Metal and Melloid Co., Ltd., Yoker, near Glasgow                                    |
| Merryweather, London .. ..                  | Merryweather & Sons, Ltd., 63, Long Acre, W.C.                                             |
| Meameric, London .. ..                      | Firth Thos., & Sons, Ltd., 8, The Sanctuary, Westminster, S.W.                             |
| Metallic, Bradford .. ..                    | United States Metallic Packing Co., Ltd., Soho Works, Bradford                             |
| Metallic, Glasgow .. ..                     | Murray, McVlane & Co., Ltd., Mavisbank Quay, Glasgow                                       |
| Metalose, Wood, London .. ..                | Interlock Metal Hose Co., River Park Rd., Wood Green N.                                    |
| Metcr, Glasgow .. ..                        | Kelvin, Bottomley & Baird, Ltd., 16-20, Cambridge St., Glasgow                             |
| Method, Birmingham .. ..                    | Player W. & J., Birmingham                                                                 |
| Mexprodux, Ave., London .. ..               | Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Court, E.C.                           |
| Mikron, Bienne .. ..                        | Mikron, Ltd., Madretsch, Bienne, Switzerland                                               |
| Mildsteel, Hay Mills .. ..                  | Mild Steel Castings, Ltd., Hay Mills, Birmingham                                           |
| Mirrlees, Glasgow .. ..                     | Mirrlees Watson Co., Ltd., Scotland St., Glasgow                                           |
| Modernize, Manchester .. ..                 | Klein Engineering Co. (1908), Ltd., 94, Market St., Manchester                             |
| Monometer, Birmingham .. ..                 | Monometer Mfg. Co., Ltd., Whitehouse St., Aston, Birmingham                                |
| Morton Weaver, Engineers,<br>Coventry .. .. | Morton & Weaver, Cox St., Coventry                                                         |
| Mosgear, Birmingham .. ..                   | Moss Gear Co., Ltd., Aston Manor, Birmingham                                               |
| Motor, Sheffield .. ..                      | Davy Brothers, Ltd., Sheffield                                                             |
| Multigraph, West Bromwich .. ..             | Kenrick & Jefferson, Ltd., Multigraph Works, West Bromwich                                 |
| Multiphase, London .. ..                    | British Westinghouse Electric & Manufacturing Co., Ltd., 2, Norfolk St., Strand, W.C.      |
| Multitube, Annan .. ..                      | Cochran & Co., Annan, Ltd., Annan, N.B.                                                    |
| Mumford, Colchester .. ..                   | Mumford A. G., Ltd., Culver St. Ironworks, Colchester                                      |
| Muntz, Westbromwich .. ..                   | Muntz P. H., & Co., Ltd., Alexandra Works, West Bromwich                                   |
| Musgrave Limited, Belfast .. ..             | Musgrave & Co., Ltd., Belfast                                                              |
| Nasmyth, Patricroft .. ..                   | Nasmyth, Wilson & Co., Ltd., Patricroft, near Manchester                                   |
| National, Ashton-under-Lyne .. ..           | National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester                               |
| National, Manchester .. ..                  | National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage,                       |
| Nautical, Glasgow .. ..                     | Mechans Limited, Scotstoun Iron Works, Glasgow [Manchester                                 |
| Negretti, London .. ..                      | Negretti & Zambra, 38, Holborn Viaduct, E.C. [Motherwell                                   |
| Nelson, Motherwell .. ..                    | Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works,                            |
| Newcomen, Birmingham .. ..                  | Savery T. A., & Co., Ltd., Newcomen Works, Birmingham                                      |
| News, Wallsend .. ..                        | North-Eastern Marine Engineering Co., Ltd., Wallsend-on-Tyne                               |
| Newton, Sheffield .. ..                     | Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield                        |
| Nichols, Engineers, Gateshead .. ..         | Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), Oakwell-gate, Gateshead-on-Tyne |
| Nileseo, New York .. ..                     | Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A.                                     |
| Nillacs, London .. ..                       | Niles-Bement-Pond Co., 23 & 25, Victoria St., Westminster, S.W.                            |
| Oakey, London .. ..                         | Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.B.                                     |
| Ocean, Sheffield .. ..                      | Standard Piston Ring & Engineering Co., Ltd., Premier Works, Don                           |
| Oldens, Birmingham .. ..                    | Youngs, Ryland St. Works, Birmingham [Rd., Sheffield                                       |
| Oolemach, Vic., London .. ..                | Coats Machine Tool Company, Ltd., Palace Chambers, Bridge St Westminister, S.W.            |
| Opodelloe, London .. ..                     | Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.                         |
| Orders, Cannon, London .. ..                | Electromotors Ltd., 49, Queen Victoria St., E.C.                                           |
| Ordinance, Coventry .. ..                   | Coventry Ordnance Works, Ltd., Ordnance Works, Coventry                                    |

| TELEGRAPHIC ADDRESS.                    | NAME AND ADDRESS OF ADVERTISER.                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------|
| Ordnance, Keighley .. ..                | Dickinson Machine Tool Co., Ltd., Devonshire Works, Keighley                        |
| Original, Manchester .. ..              | Cameron John, Ltd., Oldfield Rd. Ironworks, Salford                                 |
| Osborn, Sheffield .. ..                 | Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield                            |
| Otto, Manchester .. ..                  | Crossley Bros., Ltd., Openshaw, Manchester                                          |
| Outfitter, Glasgow .. ..                | Paisleys Ltd., 82-96, Jamaica St., Glasgow                                          |
| Outil, Oerlikon .. ..                   | Swiss Machine Tool Works, Oerlikon, near Zurich, Switzerland                        |
| Ozonistic, London .. ..                 | Judson-Jackson Co., Ltd., 50, Marsham St., Westminster, S.W.                        |
| Pagefield, Wigan .. ..                  | Walker Bros. (Wigan), Ltd., Pagefield Iron Works, Wigan                             |
| Pare, Coventry .. ..                    | Pare, Ltd., Clarence Works, Lockhurst Lane, Coventry                                |
| Parkinson, 35, Guiseley .. ..           | Parkinson F., & Co., Wells Works, Guiseley, Leeds                                   |
| Parapace, London .. ..                  | Jenkins Bros., Ltd., 95, Queen Victoria St., E.C.                                   |
| Patella, London .. ..                   | Gelpel Wm., & Co., Vulcan Works, St. Thomas St., S.B.                               |
| Paul, Dumbarton .. ..                   | Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton                               |
| Faxman, Colchester .. ..                | Davey, Faxman & Co., Ltd., Standard Works, Colchester                               |
| Faxman, London .. ..                    | Davey, Faxman & Co., Ltd., 78, Queen Victoria St., B.C.                             |
| Peaseco, Chicago .. ..                  | Pease Company C. F., 213-231, Institute Place, Chicago, Ill., U.S.A.                |
| Pearson, Dublin, 1499 .. ..             | Smith & Pearson, Ltd., Newcomen Ironworks, Dublin                                   |
| Peckett, Bristol .. ..                  | Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol                               |
| Peeters, Burton-on-Trent .. ..          | Peeters Francis, Victoria Crescent, Burton-on-Trent                                 |
| Penetration, London .. ..               | Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, B.C.                       |
| Penman, Glasgow .. ..                   | Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                                    |
| Penstock, Langley, Worcs. .. ..         | Ham, Baker & Co., Ltd., Langley Green, Birmingham                                   |
| Perennial, Birmingham .. ..             | Cranes (Birmingham), Ltd., 183, Moseley St., Birmingham                             |
| Perlite, Sheffield .. ..                | Pearlite Steel Co. (1910), Ltd., Royds Mill St., Sheffield                          |
| Petters, Yeovil .. ..                   | Petters, Ltd., Nautilus Works, Yeovil                                               |
| Phase, Huddersfield .. ..               | Brook B., Ltd., Colne Rd., Huddersfield                                             |
| Phoenix, Paisley .. ..                  | Fleming & Ferguson, Ltd., Paisley, near Glasgow                                     |
| Phosphor, London .. ..                  | Phosphor Bronze Co., Ltd., 87-91, Sumner St., S.E.                                  |
| Photophore, London .. ..                | Guilbert-Martin, 9, Edmund Place, Aldersgate, B.C.                                  |
| Pickering, Wishaw .. ..                 | Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow                                  |
| Pickles, Engineers, Hebden Bridge .. .. | Pickles, John & Son, Hebden Bridge, Yorks.                                          |
| Pickwick, Rand, London .. ..            | Chapman & Hall, Ltd., 11, Henrietta St., W.C.                                       |
| Piercewrap, Chicago .. ..               | Pierce Machine Tool Co., 617 W, Jackson Bldg., Chicago, U.S.A.                      |
| Pipkin, Montreal .. ..                  | Jenkins Bros., Ltd., St. Remi St., and Acorn Avenue, Montreal,                      |
| Piston, Sheffield .. ..                 | Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield [Canada]                        |
| Pistons, Manchester .. ..               | Lancaster & Tonge, Ltd., Pendleton, near Manchester                                 |
| Planers, Keighley .. ..                 | Ward, Haggas & Smith, Bastwood, Keighley                                            |
| Platt, Wednesbury .. ..                 | Platt Samuel, Ltd., Wednesbury                                                      |
| Plenty, Newbury .. ..                   | Plenty & Son, Ltd., Newbury, Berkshire                                              |
| Plungers, Birmingham .. ..              | Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham                               |
| Pneumatoid, London .. ..                | Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W.                        |
| Pneumelin Telev, London .. ..           | Michellin Tyre Co., Ltd., 81, Fulham Rd., Chelsea, S.W.                             |
| Pel ur, Liverpool .. ..                 | Liverpool Refrigerating Co., Ltd., Colonial House, Liverpool [B.C.]                 |
| Policy, Ltd., London .. ..              | London & Lancashire Fire Insurance Co., Ltd., 135, Leadenhall St.,                  |
| Ponlex, London .. ..                    | Ponliff & Wood, Ltd., 175-177, Salisbury House, London Wall, B.C.                   |
| Pooley, Birmingham .. ..                | Pooley Henry, & Son, Ltd., John Bright St., Birmingham                              |
| Possil, Glasgow .. ..                   | Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow                               |
| Potential, Newcastle-on-Tyne .. ..      | Jennings Edward J., West Walls, Newcastle-on-Tyne                                   |
| Pott, Motherwell .. ..                  | Pott, Cassells & Williamson, Motherwell, near Glasgow                               |
| Powersig, Sowest, London .. ..          | McKenzie, Holland, & Westinghouse Power Signal Co., Ltd., 58, Victoria St., S.W.    |
| Fratchitts, Engineers, Carlisle .. ..   | Fratchitt Brothers, Denton Ironworks, Carlisle                                      |
| Precooler, Vic., London .. ..           | Premier Cooler & Engineering Co., Ltd., Broadway Court, Broadway, Westminster, S.W. |

| TELEGRAPHIC ADDRESS.           | NAME AND ADDRESS OF ADVERTISER.                                            |
|--------------------------------|----------------------------------------------------------------------------|
| Preferrment, London .. ..      | Ledward & Beckett, Ltd., Broadway Chambers, Westminster, S.W.              |
| Premier, Sandiacre .. ..       | Premier Gas Engine Co., Ltd., Sandiacre, Nottingham                        |
| Press, Leeds .. ..             | Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds                 |
| Presses, Birmingham .. ..      | Furden Charles, Ltd., Lancaster St., Birmingham                            |
| Priestman, Hull .. ..          | Priestman Bros., Ltd., Holderness Foundry, Hull                            |
| Priestman, London .. ..        | Priestman Bros., Ltd., 3, Laurence Pountney Hill, E.C.                     |
| Priniceps, Sheffield .. ..     | Priniceps & Co., Sheffield                                                 |
| Printeries, Cent., London ..   | Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C.2.                  |
| Processes, Estrand, London ..  | Electro-Metals, Ltd., Imperial Buildings, Kingsway, W.C.                   |
| Proctor, Burnley .. ..         | Proctor James, Ltd., Burnley, Lancashire                                   |
| Prodigious, Fleet, London ..   | Canadian-American Machinery Co., Ltd., 8, Bouverie St., London, E.C.4      |
| Prodigious, Glasgow .. ..      | Mavor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow                    |
| Proells, London .. ..          | Engineering Supplies, Ltd., 28, Victoria St., S.W.                         |
| Profanity, London .. ..        | Hoyt Metal Co., Ltd., 26, Billiter St., E.C.3.                             |
| Proffle, Coventry .. ..        | Webster & Bennett, Ltd., Foleshill, Coventry                               |
| Promptitude, London .. ..      | Baldwins Ltd., 3, St. Helens Place, Bishopsgate, E.C.                      |
| Pulleys, Birstall .. ..        | Douglas, Lawson & Co., Birstall, near Leeds                                |
| Pulsometer, London .. ..       | Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.                    |
| Pulsometer, Reading .. ..      | Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, [Berks.]   |
| Pulsometer, Glasgow .. ..      | Pulsometer Engineering Co., 160, Vincent St., Glasgow                      |
| Pulsometer, Leeds .. ..        | Pulsometer Engineering Co., Ltd., 15, King St., Leeds                      |
| Pulsometer, Liverpool .. ..    | Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool                 |
| Pulsometer, Manchester .. ..   | Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester |
| Pump, Bedford .. ..            | Allen W. H., Son & Co., Ltd., Queen's Engineering Works, Bedford           |
| Pump, London .. ..             | Allen W. H., Son & Co., Ltd., 1, Queen Anne's Chambers, S.W.               |
| Pumping, Westcent, London ..   | Worthington Pump Co., Ltd., Queen's House, Kingsway, W.C.                  |
| Pumps, Clydebank .. ..         | Dawson & Downie, Ltd., Elgin Works, Clydebank, Scotland                    |
| Pumps, Manchester .. ..        | Fearn F., & Co., Ltd., West Gorton, Manchester                             |
| Quality, Worcester .. ..       | Hardy & Padmore, Ltd., Worcester Foundry, Worcester                        |
| Radford, Sheffield .. ..       | Radford R., Heber, Son & Squire, 15, St. James Row, Sheffield              |
| Rails, Widnes .. ..            | White Rd., & Sons, Widnes, Lancs.                                          |
| Railway, Darlington .. ..      | McLachlan & Co., Ltd., Darlington                                          |
| Ramsay, Birmingham .. ..       | Ramsay & Marshall, Ltd., Birmingham                                        |
| Ransome, Cent, London .. ..    | Ransome A., & Co., Ltd., 63, Queen Victoria St., E.C.                      |
| Ransome, Newark .. ..          | Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent                    |
| Ransomes, Ipswich .. ..        | Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich                    |
| Rapidising, London .. ..       | Davis B. J., Great Eastern Rd., Stratford, B.                              |
| Readers, Nottingham .. ..      | Reader E., & Sons, Phoenix Works, Cremorne St., Nottingham                 |
| Reamers, Birmingham .. ..      | Walker George & Sons (Birmingham), Ltd., Whittall St., Birmingham          |
| Reavell, Ipswich .. ..         | Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich                     |
| Reclaiming, Telow, London ..   | Rubber Industries, Ltd., Downham Mills, Tottenham, N.                      |
| Recording, Manchester .. ..    | Lea Recorder Co., Ltd., 28, Deansgate, Manchester                          |
| Reddaway, London .. ..         | Reddaway F., & Co., Ltd., 50 & 51, Lime St., E.C.                          |
| Redmans, Engineers, Halifax .. | Redman C., & Sons, Dunkirk, Halifax                                        |
| Reducing, Glasgow .. ..        | Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow                       |
| Reid, Linwood .. ..            | Reid Gear Co., Linwood, near Paisley                                       |
| Repeat, Birmingham .. ..       | Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham          |
| Repsow, Portsmouth .. ..       | Vesper & Co., Ltd., Broad St., Portsmouth                                  |
| Revolving, Birmingham .. ..    | Timbrell & Wright Machine Tool & Engineering Co., Ltd., Birmingham         |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                                  |
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| Keyrolle, Hebburn .. ..         | Keyrolle A., & Co., Ltd., Hebburn-on-Tyne                                        |
| Rheostat, Glasgow .. ..         | Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow                                |
| Rhodes, Hartford .. ..          | Rhodes Manufacturing Co., Hartford, Conn., U.S.A.                                |
| Richards, Aittrincham .. ..     | Richards Geo., & Co., Ltd., Broadheath, near Manchester                          |
| Richards, Wednesbury .. ..      | Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                          |
| Richardsons, Hartlepool .. ..   | Richardsons, Westgarth & Co., Ltd., Hartlepool Engine Works, Hartlepool          |
| Rings, Coventry .. ..           | British Chuck & Piston Ring Co., Ltd., Holbrook Lane, Coventry                   |
| Rivetter, Leeds .. ..           | Berry Henry, & Co., Ltd., Croydon Works, Leeds                                   |
| Robey, Lincoln .. ..            | Robey & Co., Ltd., Lincoln                                                       |
| Robinson, Rochdale .. ..        | Robinson T., & Son, Ltd., Rochdale                                               |
| Robsons, Shipley .. ..          | Robson John (Shipley), Ltd., Shipley, Yorkshire                                  |
| Roc, West Drayton .. ..         | Power Plant Co., Ltd., West Drayton, Middlesex                                   |
| Rocket, Darlington .. ..        | Stephenson Robert, & Co., Ltd., Darlington                                       |
| Ronksley, Armley .. ..          | Johnsen Wm., & Sons (Leeds), Castleton Foundry, Armley, Leeds                    |
| Roots, Darlaston .. ..          | Rubery, Owen, & Co., Darlaston, South Staffordshire                              |
| Rose, Hull .. ..                | Rose, Downs & Thompson, Ltd., Old Foundry, Hull                                  |
| Rowan, Glasgow .. ..            | Rowan David, & Co., 237, Elliot St., Glasgow                                     |
| Rownsen, Cent., London .. ..    | Rownsen, Drew & Clydesdale, Ltd., 225, Upper Thames St., E.C.                    |
| Royal, Worcester .. ..          | Worcester Royal Porcelain Co., Ltd., Worcester                                   |
| Ruspoli, London .. ..           | Smith S., & Son, Ltd., 6, Grand Hotel Bldgs., Trafalgar Square, W.C.             |
| Russell, Motherwell .. ..       | Russell G., & Co., Ltd., Motherwell, N.B.                                        |
| Ruston, Lincoln .. ..           | Ruston, Procter & Co., Ltd., Sheaf Iron Works, Lincoln                           |
| Salvage, Birmingham .. ..       | Pumps Limited, 14, Broad St., Birmingham                                         |
| Sandon, Patricroft .. ..        | Browett Lindley, & Co., Ltd., Patricroft, Manchester                             |
| Sandycroft, Hawarden .. ..      | Sandycroft Limited, near Chester                                                 |
| Sankey, Hadley .. ..            | Sankey Joseph, & Sons, Ltd., Hadley, Salop                                       |
| Satisfactory, Liverpool .. ..   | Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                             |
| Saws, Birmingham .. ..          | Brooke Tool Manufacturing Co., Ltd., Belgrave Rd., Birmingham                    |
| Scholarly, London .. ..         | Arnold Edward, 41 & 43, Maddox St., W.                                           |
| Scott, Halifax .. ..            | Scott Bros., West Mount, Halifax                                                 |
| Scott, Keighley, 381 .. ..      | Scott Bros. (Keighley), Albion Works, Keighley                                   |
| Scotubeco, Glasgow .. ..        | Scottish Tube Co., Ltd., 34, Robertson Street, Glasgow                           |
| Screened, Glasgow .. ..         | Cousland A., & Son, 3, Mitchells St., Glasgow                                    |
| Screw, Preston .. ..            | Friedenthal's, Ltd., River Engine Works, Preston                                 |
| Scriven, Leeds .. ..            | Scriven & Co., Marsh Lane, Leeds                                                 |
| Seafield, Manchester .. ..      | Steam Cylinder Lubricator Co., Ltd., Gordon Wks., Lower Broughton, Manchester    |
| Seagers, Dartford .. ..         | Seagers, Ltd., Dartford                                                          |
| Secabills, Ox., London .. ..    | Sun Electrical Co., Ltd., 118 & 120, Charing Cross Rd., W.C.                     |
| Segment, Liverpool .. ..        | Brundrit Joseph, 14, Water St., Liverpool                                        |
| Selig, London .. ..             | Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C.4                      |
| Seyah, London .. ..             | Hayes Edward, Palace Chambers, 9, Bridge St., S.W.                               |
| Shanks, Johnstone .. ..         | Shanks Thomas, & Co., Union Ironworks, Johnstone, near Glasgow                   |
| Shatterlys, Piccy, London .. .. | Triplex Safety Glass Co., 1, Albemarle St., W.                                   |
| Shells, Edinburgh .. ..         | Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh                      |
| Shiplumb, Glasgow .. ..         | Houston J. W., & Co., Partick Cross, Glasgow                                     |
| Shipyard, Troon .. ..           | Allsa Shipbuilding Co., Ltd., Troon, N.B.                                        |
| Shoreinst, New York .. ..       | Shore Instrument & Mfg. Co., 555-557, West 22nd St., New York                    |
| Sidash, Birmingham .. ..        | Ash Rubber Stamp Co., Ltd., Caxton Works, 192, Constitution Hill, Birmingham     |
| Siebe, Lamb, London .. ..       | Siebe, Gorman & Co., Ltd., Neptune Works, London, S.B.                           |
| Siemkralos, Kens., London .. .. | Siemens Brothers Dynamo Works, Ltd., Palace Place Mansions, Kensington Court, W. |



| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                                  |
|--------------------------------------|----------------------------------------------------------------------------------|
| Siemens, Vic., London .. ..          | Siemens Bros., & Co., Ltd., Caxton House, Westminster, S.W.                      |
| Siemens, Motherwell .. ..            | Lanarkshire Steel Co., Ltd., Motherwell                                          |
| Sightseer, London .. ..              | Stone J. B., & Co., Ltd., 135, Finsbury Pavement, E.C.                           |
| Silently, London .. ..               | Parsons C. A., & Co., Ltd., 8, Victoria St., S.W.                                |
| Silvergray, Cannon, London ..        | India Rubber, Gutta Percha, and Telegraph Works Co., Ltd., 106, Cannon St., E.C. |
| Silverline, London .. ..             | Baldwins Ltd., Orchard Place, Blackwall, B.                                      |
| Simons, Renfrew .. ..                | Simons W., & Co., Ltd., Renfrew, Scotland                                        |
| Sirocco, Belfast .. ..               | Davidson & Co., Ltd., Sirocco Engineering Works, Belfast                         |
| Slisson, Gloucester .. ..            | Slisson W., & Co., Ltd., Gloucester                                              |
| Skelke, Vic., London .. ..           | Skelko Ball Bearing Co., Ltd., 28, Victoria St., Westminster, S.W.               |
| Sleeper, Worcester, Mass. ..         | Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.                               |
| Slidevale, Cincinnati .. ..          | Houston, Stanwood & Gamble Co., Cincinnati, U.S.A.                               |
| Smedleys, Belper .. ..               | Smedley Bros., Ltd., Belper, Derbyshire                                          |
| Smith, Rodley .. ..                  | Smith Thos., & Sons, Steam and Electric Crane Works, Rodley, near                |
| Smidszoon, Kinderdijk .. ..          | Smilt L., & Zoon, Kinderdijk, near Rotterdam, Holland [Leeds                     |
| Soaring, Bognor .. ..                | Norman Thompson Flight Co., Ltd., Middleton, Bognor, Eng.                        |
| Soho, Paisley .. ..                  | Campbell & Calderwood, Soho Works, Paisley, Scotland                             |
| Solidity, Rotherham .. ..            | Cottam Edwin, & Co., Ltd., Don Steel Foundry, Rotherham                          |
| Solution, London .. ..               | Vacuum Brake Co., 32, Queen Victoria St., E.C.                                   |
| Southwark, Philadelphia .. ..        | Southwark Foundry & Machine Co., Philadelphia, U.S.A.                            |
| Spencer, Hollinwood .. ..            | Spencer James, & Co., Ltd., Hollinwood, near Manchester                          |
| Sperryco, Victoria, London ..        | Sperry Gyroscope Co., Ltd., 15, Victoria St., S.W.                               |
| Spherical, Newton Heath .. ..        | Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester                        |
| Springs, Redditch .. ..              | Terry Herbert, & Sons, Redditch                                                  |
| Springs, Rotherham .. ..             | Cottam Edwin & Co., Ltd., Don Spring Works, Rotherham                            |
| Springs, West Bromwich .. ..         | Smith, Bros., & Hill, Ltd., Albert Spring Works West Bromwich                    |
| Stairs, Bristol .. ..                | Jennings C., & Co., Pennywell Rd., Bristol                                       |
| Stamping, Philadelphia .. ..         | Standard Pressed Steel Co., Philadelphia, U.S.A.                                 |
| Stampings, Middlesbro' .. ..         | Heavy Stampings, Ltd., Middlesbrough                                             |
| Standard, Leicester .. ..            | Standard Engineering Co., Ltd., Leicester                                        |
| Stapely, New York .. ..              | Wonham, Bates & Goode (Inc.), 17, Battery Place, New York City, U.S.A.           |
| Steadfast, Sheffield .. ..           | Stead J., & Co., Ltd., Manor Works, Sheffield                                    |
| Steamplow, London .. ..              | Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.                          |
| Steamport, London .. ..              | Hindley E. S., & Sons, 11, Queen Victoria St., E.C.                              |
| Steam Users, Manchester .. ..        | Manchester Steam Users' Association, 9, Mount St., Manchester                    |
| Steel, Glasgow .. ..                 | Steel Company of Scotland (Limited), 23, Royal Exchange Square,                  |
| Steinle, 53, Victoria St., London .. | Steinle Turret Machine Co., 35, Victoria St., S.W. [Glasgow                      |
| Steptoe, Cincinnati .. ..            | Steptoe John, & Co., Camp Washington, Cincinnati, Ohio, U.S.A.                   |
| Sterling, Carlisle .. ..             | Rimington Bros., Abbey St., Carlisle                                             |
| Stewart, Glasgow .. ..               | Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow                       |
| Stirk, Halifax .. ..                 | Stirk John, & Sons, Ltd., Halifax                                                |
| St. Nicholas, Carlisle .. ..         | Cowans, Sheldon & Co., Ltd., Carlisle                                            |
| Storson, Millicast, London .. ..     | Wilkinson, Heywood & Clarke, Ltd., Caledonian Works, Poplar, B.                  |
| Stothert, Bath .. ..                 | Stothert & Pitt, Ltd., Bath                                                      |
| Stothert, London .. ..               | Stothert & Pitt, Ltd., 53, Victoria St., S.W.                                    |
| Strashaw, Bristol .. ..              | Strachan & Henshaw, Ltd., Bristol                                                |
| Strength, Manchester .. ..           | Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton,                    |
| Stringer, West Bromwich .. ..        | Stringer Brothers, Albion, West Bromwich [Manchester                             |
| Sturtevant, London .. ..             | Sturtevant Engineering Co., Ltd., 147, Queen Victoria St., E.C.                  |
| Summersson, Darlington .. ..         | Summersson Thomas, & Sons, Ltd., Darlington                                      |
| Superunits, Swansea .. ..            | Superheater Units, Ltd., 4, Castle Square, Swansea                               |
| Sutcliffe Bros., Hyde .. ..          | Sutcliffe Bros., Soho Works, Godley, near Manchester                             |
| Swiftly, Halifax .. ..               | Swift George, & Sons, Ltd., Range Bank, Halifax                                  |
| Swinney, Morpeth .. ..               | Swinney Brothers, Limited, Morpeth, Northumberland                               |
| Switch, Manchester .. ..             | Royce Ltd., Trafford Park, Manchester                                            |

| TELEGRAPHIC ADDRESS.          | NAME AND ADDRESS OF ADVERTISER.                                                 |
|-------------------------------|---------------------------------------------------------------------------------|
| Tangyes, Birmingham .. ..     | Tangyes Limited, Cornwall Works, Birmingham                                     |
| Tangyes, London .. ..         | Tangyes Limited, 35, Queen Victoria St., E.C.                                   |
| Tanks, Birmingham .. ..       | Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham                         |
| Taps, Salford .. ..           | Widdowson John H., Britannia St., Ordsall Lane, Salford, Manchester             |
| Tay, Glasgow .. ..            | Arrol Sir Wm., & Co., Ltd., Dalmarnock Ironworks, Bridgeton, Glasgow [Tees      |
| Teesdale, Stockton-on-Tees .. | Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-                   |
| Telcra, Birmingham .. ..      | Brookes & Adams, 250-252, Barr St., Hockley, Birmingham.                        |
| Temperature, London .. ..     | Green & Boulding, Ltd., 28, New Bridge St., E.C.                                |
| Temples, Shipley .. ..        | Parkinson J., & Son, Shipley, Yorkshire                                         |
| Tetramonic, Stockton-on-Tees  | Power Gas Corporation, Ltd., Stockton-on-Tees                                   |
| Thehayco, New York .. ..      | Hayward Co., The, Hudson Terminal Bldg., New York, U.S.A.                       |
| Theorem, Patricroft .. ..     | Gardner L., & Sons, Ltd., Barton Hall Engineering Works, Patricroft, Manchester |
| Thermal, Liverpool .. ..      | British Thermit Co., Ltd., 49 & 51, The Albany, Liverpool                       |
| Thermotank, Glasgow .. ..     | Thermotank Co., 55, West Regent St., Glasgow                                    |
| Thompson Bros., Bilston ..    | Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston            |
| Thornmotin, Vic., London ..   | Ironite Co., Ltd., 11, Old Queen St., Westminster, S.W.1.                       |
| Thornycroft, Basingstoke ..   | Thornycroft J. I., & Co., Ltd., Basingstoke                                     |
| Thornycroft, Vic., London ..  | Thornycroft J. I., & Co., Ltd., Caxton House, Westminster, S.W.                 |
| Thornycroft, Southampton ..   | Thornycroft J. I., & Co., Woolston, Southampton                                 |
| Tilghmans, Altrincham .. ..   | Tilghman's Patent Sand Blast Co., Ltd., Broadheath, nr. Manchester              |
| Till, London .. ..            | Barry, Head & Co., 110, Cannon St., E.C.                                        |
| Tipton, Tipton .. ..          | Tranter's W. J., Boiler Appliance Co., Tipton, Staffordshire                    |
| Tomey, Aston, Birmingham ..   | Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham                |
| Toolcraft, London .. ..       | Universal Machinery Corporation, Ltd., 326, Old St. (Shoreditch), E.C.          |
| Tools, Leeds .. ..            | Musgrave Bros., Crown Point Foundry, Leeds                                      |
| Tostones, Deptmark, London    | Stone J., & Co., Ltd., Deptford, S.E.                                           |
| Towards, Newcastle-on-Tyne .. | Toward T., & Co., Ltd., 9, Ouseburn, Newcastle-on-Tyne                          |
| Trewent, London .. ..         | Trewent F. J., & Proctor, Ltd., 43, Billiter Buildings, Billiter St.,           |
| Triwrench, Roxbury .. ..      | Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. [B.C.                |
| Tubes, Leeds .. ..            | Yorkshire Copper Works, Ltd., Leeds                                             |
| Tubes, Wednesbury .. ..       | Spencer John, Ltd., Wednesbury                                                  |
| Tubes, West Bromwich .. ..    | Oriental Tube Co., Ltd., West Bromwich                                          |
| Tubularity, London .. ..      | Sugden T., Ltd., 180, Fleet St., E.C.                                           |
| Tudor, Birmingham .. ..       | Ward H. W., & Co., Ltd., Lionel St., Birmingham                                 |
| Tullis, Clydebank .. ..       | Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow                          |
| Tullis, Glasgow .. ..         | Tullis John, & Son, Ltd., St. Ann's Leather Works, Glasgow                      |
| Turbo, Newcastle-on-Tyne ..   | Parsons C. A., & Co., Ltd., Heaton Works, Newcastle                             |
| Turretorum, London .. ..      | Jones & Lamson Machine Co., 109, Queen Victoria St., E.C.                       |
| Turtons, Sheffield .. ..      | Turton T., & Sons, Ltd., Spring Works, Sheffield                                |
| Tyche, Fenchurch, London ..   | Honeywill Bros., 79, Mark Lane, E.C.2.                                          |
| Tylerox, Cent., London .. ..  | Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C.                         |
| Typhoon, London .. ..         | Alldays & Onions Pneumatic Engineering Co., Ltd., 58, Holborn Viaduct, E.C.     |
| Typify, Fleet, London .. ..   | Haddon John, & Co., Salisbury Sq., Fleet St., E.C.                              |
| Unbeaten, Birmingham .. ..    | Staffordshire Tube Co., Ltd., Edmund St., Birmingham                            |
| Unbreakable, London .. ..     | Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.                         |
| Unbreakable, Manchester ..    | Wells A. C., & Co., Carnarvon St., Cheetham, Manchester                         |
| Vacuo, Ave., London .. ..     | Consolidated Brake and Engineering Co., Ltd., 41, Moorfields, E.C.              |
| Vacuümiser, Walgreen, London  | British Vacuum Cleaner Co., Parson's Green Lane, S.W.                           |
| Valor, Birmingham .. ..       | Valor Company, Ltd., Aston Cross, Birmingham                                    |

| TELEGRAPHIC ADDRESS.             | NAME AND ADDRESS OF ADVERTISER.                                                    |
|----------------------------------|------------------------------------------------------------------------------------|
| Valve, Glasgow .. ..             | Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow                                 |
| Valve, Liverpool .. ..           | Metallic Valve Co., Colonial House, Water St., Liverpool                           |
| Vanadium, Latrobe .. ..          | Vanadium Alloys Steel Co., Latrobe, Penn., U.S.A.                                  |
| Vanner, Ave., London .. ..       | Fraser & Chalmers, Ltd., Moorgate Hall, Finsbury Pavement, E.C.2                   |
| Vaporize, London .. ..           | Caird & Rayner, 777, Commercial Rd., Limehouse, E.                                 |
| Varjar, Westdo, London .. ..     | Parsons Thos., & Sons, 315-317, Oxford St., W.                                     |
| Vaunting, Manchester .. ..       | Vaughan Crane Co., Ltd., Openshaw, Manchester                                      |
| Voelting, London .. ..           | Thomas & Bishop, 37, Tabernacle St., E.C.                                          |
| Ventilate, Manchester .. ..      | Wood, Edward, & Co., Ltd., Ocean Iron Works, Manchester.                           |
| Venture, London .. ..            | Jensen & Son, 77, Chancery Lane, W.C.                                              |
| Vermehrico, Vic., London .. ..   | Ransome-verMeh'r Machinery Co., Ltd., 505, Brunswick House, Westminster, S.W.      |
| Vertical, Leeds .. ..            | Goodall, Clayton & Co., Ltd., Hunslet (Pepper Road), Leeds                         |
| Vices, Sheffield .. ..           | Hampton, C. & J., Ltd., Attercliffe, Sheffield                                     |
| Vickers, Leeds .. ..             | Vickers Benjn. R., & Sons, Ltd., Leeds                                             |
| Vickers, London .. ..            | Vickers Limited, Vickers House, Broadway, Westminster, S.W.                        |
| Vickers, Sheffield .. ..         | Vickers Limited, River Don Works, Sheffield                                        |
| Vilvalle, London .. ..           | Beardshaw J., & Son, Ltd., 38, Victoria St., S.W.                                  |
| Vilvalle, London .. ..           | Walber W. A., & Co., 38, Victoria St., Westminster, S.W.                           |
| Vires, Liverpool .. ..           | Brown W. B., & Co. (Bankhall), Ltd., Globe Works, Bankhall, Liverpool              |
| Viscosity, London .. ..          | Trier Bros., Ltd., 36, Victoria St., Westminster, S.W.1.                           |
| Vitundum, Blackburn .. ..        | Tattersall A. A., & Co., Blackburn                                                 |
| Voidance, London .. ..           | Hughes & Lancaster, 16, Victoria St., Westminster, S.W.                            |
| Vulcan, Liverpool .. ..          | Henderson & Glass, Liverpool                                                       |
| Vulcan, Paisley .. ..            | Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine                      |
| Vulpes, Leeds .. ..              | Leeds Forge Company, Ltd., Leeds [Works, Paisley]                                  |
| Wagon, Birmingham .. ..          | Midland Railway Carriage and Wagon Co., Ltd., Midland Works, Birmingham            |
| Wagonload, London .. ..          | Pickering R. Y., & Co., Ltd., 2, Victoria St., S.W.                                |
| Wake, Darlington .. ..           | Wake John Fredk., 123, Victoria Rd., Darlington                                    |
| Wall, Newcastle-on-Tyne .. ..    | Wallsend Slipway & Engineering Co., Ltd., Wallsend                                 |
| Warmth, Liverpool .. ..          | Kermodes Ltd., 35, The Temple, Dale St., Liverpool                                 |
| Waterside, Ipswich .. ..         | Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich                              |
| Water tanks, Wolverhampton .. .. | Kennicott Water Softener Co., Ettingshall Works, Wolverhampton                     |
| Waygood, Sedist, London .. ..    | Waygood-Otis, Ltd., Falmouth Rd., S.E.                                             |
| Webb, Combs .. ..                | Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                                |
| Wedge, Leeds .. ..               | Kaye Jos., & Sons, Ltd., Lock Works, Leeds                                         |
| Weigh, Leeds .. ..               | Denison Samuel, & Son, Ltd., Far Hunslet, Leeds, S.                                |
| Welborne, New York .. ..         | Welborne & Co., Southferry Bldg., New York, U.S.A.                                 |
| Weldless, Birmingham .. ..       | Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                       |
| Wellington, Middlesboro' .. ..   | Shaw W., & Co., Wellington Cast Steel Foundry, Middlesboro'-on-                    |
| Werfeconrad, Haarlem .. ..       | Werf Conrad, N.V., Haarlem, Holland [Tees                                          |
| Westcelite, London .. ..         | Bucyrus Co., 13, Victoria St., Westminster, S.W.                                   |
| Western, Aurora, Illinois .. ..  | Western Wheeled Scraper Co., Aurora, Illinois, U.S.A.                              |
| Westinghouse, London .. ..       | Westinghouse Brake Co., Ltd., 82, York Rd., King's Cross, N.                       |
| Westinghouse, Manchester .. ..   | British Westinghouse Electric & Manufacturing Co., Ltd., Trafford Park, Manchester |
| Westminster, Birmingham .. ..    | Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham.                  |
| Westoleco-Cannon, London .. ..   | Westminster Tool & Electric Company, Suffolk House, Laurence Pountney Hill, E.C.   |
| Westwood, Milleast, London .. .. | Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.                           |
| Wharfedale, Otley .. ..          | Fayne & Sons (Otley), Ltd., Atlas Works, Otley, Yorkshire                          |
| White, East Cowes .. ..          | White J. Samuel, & Co., Ltd., East Cowes, L.O.W.                                   |
| Whitefield, Glasgow .. ..        | Ross & Duncan, Whitefield Works, Glasgow                                           |

| TELEGRAPHIC ADDRESS.               | NAME AND ADDRESS OF ADVERTISER.                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| Wiggins, Minorics, London .. ..    | Wiggins F., & Sons, 102, 103 & 104, Minorics, B.                                          |
| Wiley, Darlaston .. ..             | Wiley James, & Sons, Ltd., Darlaston                                                      |
| Wilkinsens, Engineers, Kelghley .. | Wilkinson G., & Sons, Kelghley                                                            |
| Willans, Rugby .. ..               | Willans & Robinson, Ltd., Rugby, Warwickshire                                             |
| Willcox, Southwark St., London ..  | Willcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.                                 |
| Willetts, Junr., Cradley Heath ..  | Willetts Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.                     |
| Willrich, New York .. ..           | Williams J. H., & Co., 91, Richards St., Brooklyn, New York, U.S.A.                       |
| Wincott, Sheffield .. ..           | Wincott G. P., Ltd., 180, Attercliffe Road, Sheffield                                     |
| Windtight, London .. ..            | Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.                      |
| Windtight, Newcastle-on-Tyne ..    | Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger St. West,<br>Newcastle-on-Tyne |
| Winn, Birmingham .. ..             | Winn Charles, & Co., Granville Place, Birmingham                                          |
| Wiredrawn, Led., London .. ..      | Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C.2.                                      |
| Woodite, Mitcham .. ..             | Woodite Works, Mitcham Common, Surrey                                                     |
| Woodworker, Leicester .. ..        | Wadkin & Co., London Street, Leicester                                                    |
| Wrathless, Phone, London .. ..     | Willley Co., Ltd., Salisbury House, London Wall, E.C.2.                                   |
| Wright, Tipton .. ..               | Wright's Forge and Engineering Co., Ltd., Tipton, Staffordshire                           |
|                                    |                                                                                           |
| Yarrow, Glasgow .. ..              | Yarrow & Co., Ltd., Glasgow                                                               |
| Yates, Blackburn .. ..             | Yates & Thom, Ltd., Canal Works, Blackburn                                                |
|                                    |                                                                                           |
| Zepstraiffa, Phone, London .. ..   | Aeronautical Institute of Great Britain, 3, Arlington St., St. James's,                   |
| Zero, Derby .. ..                  | Haslam Foundry and Engineering Co., Ltd., Derby [S.W.]                                    |
| Zero, Derby .. ..                  | Pontifex & Wood, Ltd., Union Foundry, Derby                                               |
| Zone, Dursley .. ..                | Mawdsley's, Ltd., Zone Works, Dursley, Glos.                                              |

FRENCH GLOSSARY.

Traduction des en-tête sous lesquels sont classées dans la présente  
brochure, les annonces publiées dans “ENGINEERING”

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RUSSIAN GLOSSARY.

Переводъ названій отдѣловъ, по которымъ въ данной брошюрѣ  
распредѣлены предметы, объявленія на которые были  
помѣщены въ „ENGINEERING“ ... .. Стр. 92

SPANISH GLOSSARY.

Traducción de los titulos con que estan clasificados en este libreo  
los anuncios que publica “ENGINEERING” ... página 98

ITALIAN GLOSSARY.

Traduzione dei nomi degli articoli sotto i quali sono classificati  
gli annunzi pubblicati nel “ENGINEERING” ... pagina 104

## (FRENCH GLOSSARY). TRADUCTION DES EN-TÊTE

sous lesquels sont classées dans la présente brochure, les annonces publiées dans "ENGINEERING."

| Français.                                   | Anglais.                                                            | Français.                                                  | Anglais.                                                   | Français.                                                                    | Anglais.                                   |
|---------------------------------------------|---------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------|
| Accessoires de locomotives                  | Locomotives (Mountings for)                                         | Briques réfractaires ..                                    | Fire Bricks ( <i>voir</i> Refractory Materials)            | Constructeurs de navires                                                     | Shipbuilders                               |
| Accessoires de machines et chaudières       | Engine and Boiler Fittings                                          | Briques (Installation pour la fabrication de)              | Briquette (Machinery)                                      | Constructions en fer ..                                                      | Iron Buildings                             |
| Accessoires pour chaudières                 | Boiler Mountings                                                    | Brise-rocs sous-marins                                     | Rockbreaker (Mechanical, under Water)                      | Convoyeurs ..                                                                | Conveyors                                  |
| Accouplements (pour arbres de transmission) | Couplings (Shaft)                                                   | Bronze et laiton (garnitures en)                           | Brass Founders and                                         | Cordes de transmission                                                       | Ropes (Driving)                            |
| Accumulateurs électriques                   | Accumulators (Electric)                                             | Brouettes ..                                               | Burrows                                                    | Courroies de transmission                                                    | Belt (Leather, Canvas, etc.)               |
| Acier à outils, spécial et rapide           | Steel Tool, Special and High-speed                                  | Broyeurs — malaxeurs pour peintures, huiles, mortier, etc. | Broyeurs — malaxeurs pour peintures, huiles, mortier, etc. | Coussinets (à rouleaux et à billes)                                          | Bearings (Ball and Roller)                 |
| Acides ..                                   | Acids ..                                                            | Burettes ..                                                | Burettes ..                                                | Crayons ..                                                                   | Pencils ( <i>voir</i> Drawing Instruments) |
| Aéroplanes et hydroplanes                   | Aeroplanes and Seaplanes                                            | Broyeurs — malaxeurs pour mortier, etc.                    | Broyeurs — malaxeurs pour mortier, etc.                    | Crevasses ..                                                                 | Cracks                                     |
| Agents de Brevets ..                        | Patent Agents                                                       | Brûleurs à gaz ..                                          | Burners (Gas)                                              | Cribles ..                                                                   | Screens                                    |
| Ajustage mécanique à façon                  | Machining for the Trade                                             | Buanderies (machines pour)                                 | Laundry Machinery                                          | Cubitoirs ..                                                                 | Cupolas                                    |
| Alliages ..                                 | Alloys ( <i>voir</i> Metals, etc.)                                  | Burettes à huile ..                                        | Oil-cans                                                   | Cuivre en lingots, en barres, et en feuilles                                 | Copper Ingots, Bars, and Sheets            |
| Alliages phosphoreux, etc.                  | Metals (Phosphor Alloys, etc.)                                      | Cabestans (à vapeur hydrauliques et électriques)           | Capstans (Steam, Hydraulic and Electric)                   | Cylindres de laminage ..                                                     | Rolls (Chilled and Grain)                  |
| Allumage (Appareils d')                     | Igniters (Electric)                                                 | Cables pour lumière, télégraphes, et téléphones            | Cables (Electric Light, Telegraph and Telephone)           | Décapage de tôles (machines pour)                                            | Stamping Machinery                         |
| Aluminium et produits d'aluminium           | Aluminum and Aluminum Goods                                         | Cables sous-marins (appareils pour la pose de)             | Cable Laying Machinery                                     | Defouneuses à coke ..                                                        | Coke Rams                                  |
| Amiante ..                                  | Asbestos Goods, Fittings, etc.                                      | Caissons de fondations pour ponts ..                       | Bridge Foundation Caissons                                 | Desincrustants ..                                                            | Disincrustants                             |
| Ancre ..                                    | Anchor                                                              | Calorifères ..                                             | Heaters                                                    | Desincrustants pour chaudières, Appareils de désinfection (installations de) | Boiler Scaling Appliances                  |
| Antrouille ..                               | Rust Preventive                                                     | Canons et éléments de canons                               | Gun and Gun Forgings                                       | Dessication (installations pour la)                                          | Drying Apparatus                           |
| Appareils à badigeonner et peindre          | Whitewashing & Painting Machines                                    | Canots automobiles ..                                      | Motor Boats                                                | Dessication (ventilateurs pour la)                                           | Centrifugal Drying Machines                |
| Appareils à cintrer les rails               | Rail-benders                                                        | Canots à yachts ..                                         | Launched and Yachts                                        | Dessins, caques, etc. ..                                                     | Drawings, Tracings, etc.                   |
| Appareils à fletter ..                      | Screwing Machines                                                   | Cantines (matériel pour)                                   | Canteen Equipment                                          | Destructeurs ..                                                              | Destructors                                |
| Appareils à fletter et à couper les tubes   | Pipe-screwing and Cutting Machinery                                 | Caoutchouc (articles en)                                   | India-rubber Goods                                         | Distilleries (appareils pour)                                                | Distillery Plant                           |
| Appareils de halage ..                      | Haulage Plants                                                      | Caoutchouc (machines à traiter le)                         | Rubber Machinery                                           | Dredges ..                                                                   | Dredging Machines                          |
| Appareils de levage ..                      | Lifting Machinery                                                   | Carburateurs et vaporisateurs                              | Carbureters and vaporizers                                 | Dragues à succion ..                                                         | Dredgers (Suction)                         |
| Appareils plongeurs ..                      | Diving Apparatus                                                    | Cartoucheries (machines pour)                              | Cartridge-making Machinery                                 | Dynamomètres ..                                                              | Dynamometers                               |
| Apprêtuses pour étoffes                     | Cloth-finishing Machinery                                           | Casques pare-feu ..                                        | Smoke Helmets                                              | Ebonite ..                                                                   | Ebonite                                    |
| Arbitres ..                                 | Arbitrators                                                         | Casques pare-feu (produits pour la)                        | Case-hardening Materials                                   | Eclairage de travaux ..                                                      | Lighting Apparatus                         |
| Arbres coudés ..                            | Cranks                                                              | Cementation (produits pour la)                             | Cementation (produits pour la)                             | Eclairage électrique (installations d')                                      | Electric Lighting Plant                    |
| Arbres de transmission et accessoires       | Shafting and Shaft Fittings ( <i>voir</i> Plummer Blocks, Bearings) | Chânes de transmission                                     | Chains (Gearing)                                           | Economiseurs ..                                                              | Economisers                                |
| Ascenseurs et Monte-charges                 | Lifts                                                               |                                                            |                                                            | Ecrous indesserrables ..                                                     | Lock-nuts and Nut Locking Appliances       |

|                           |                                 |                             |                                    |                            |                               |
|---------------------------|---------------------------------|-----------------------------|------------------------------------|----------------------------|-------------------------------|
| Aspirateurs .. ..         | Exhausters                      | Chaudières et gabarres      | Barges & Lighters (Iron and Steel) | Eroues (machines à fa-     | Nut-making machines           |
| Aspirateurs de gaz ..     | Gas Exhausters                  | Changements de marche       | Reversing Gears (Motor boat)       | Editeurs .. ..             | Publishers                    |
| sières .. ..              | pous-Vacuum Dust Plant          | (pour bateaux auto-         | mobiles)                           | Eiecteurs d'escarbilles .. | Ash-ejectors                  |
| Assureurs de chaudières   | Boiler Insurance Co.'s          | Changements et croise-      | Switches and Crossings             | Electriciens .. ..         | Electrical Engineers          |
| Attaches et agrafes pour  | Belt Fasteners                  | ments .. ..                 |                                    | Electro-aimants de sus-    | Magnets (Lifting)             |
| Atelages(chemin de fer)   | Couplings (Railway)             | Chantiers navals ..         | Shipbuilders                       | pension .. ..              | Elevators (Grain, Coal, etc.) |
| Automobiles .. ..         | Motor Vehicles                  | Charrières, gondes ..       | Hinges                             | Elévateurs de grain, ..    | Boats                         |
|                           |                                 | Chaudières à vapeur ..      | Boilers (Steam)                    | Embarcations, acier ..     | Pressed Steel and Metal       |
|                           |                                 | Chaudières multitu-         | Boilers (Water-tube)               | Embouts, .. ..             | Work                          |
|                           |                                 | laires .. ..                |                                    | autres métaux ..           | Clutches (Friction)           |
| Bâches, récipients, fûts  | Tanks and Drums                 | Chaudières de cuivre        | Coppersmiths                       | Embrayages à cône ..       | Emery and                     |
| Bagues, métalliques       | Metallic Packing                | Chaudières mécaniques       | Stokers (Mechanical)               | Emuri, toile d'èmeri, ..   | Cloth, etc.                   |
| pièces .. ..              |                                 | Chaudières (pour le)        | Chimneys                           | Emplacements ..            | Sites (Industrial)            |
| Balanciers pour mon-      | Coining Machinery               | Chaudières de fer à cré-    | Railways (Rack)                    | fabriques .. ..            | Inks                          |
| mayage .. ..              |                                 | Chaudières de fer à voie    | Railways (Light and Portable)      | Encre .. ..                | Non-conducting Compo-         |
| Bancs à étirer ..         | Draw Benches                    | Chaudières de fer à voie    | Permanent Way                      | Enduits et matelas ca-     | sitions                       |
| Bandages en caout-        | Lyres (Rubber)                  | Chaudières de fer (matériel | Permanent Way                      | Engrenages à vis sans fin  | Worm Gearing                  |
| Bandages de roues ..      | Tyres (Railway)                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages en cuir ..      | Gears (Rawhide)               |
| Barreaux de grilles ..    | Fire Bars                       | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Barreaux (acier et fer)   | Bars (Steel and Iron)           | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bascules et pesons ..     | Weighing Machines               | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bâtiments démontables     | Buildings (Portable)            | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bâtiments et hangars      | Iron and Steel Buildings        | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| en fer et acier ..        |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Belliers hydrauliques ..  | Hydraulic Rams                  | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bennes ou pelles auto-    | Grabs                           | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| matiques .. ..            |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Benzine et ses suc-       | Petrol and its Substi-          | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| cédanés .. ..             | tutes .. ..                     | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Béton ordinaire et armé   | Concrete (Plain and Reinforced) | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
|                           |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bigues .. ..              | Sheerlegs                       | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Blanchiment des étoffes   | Bleaching Machinery             | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| (installations pour le)   |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Blindages .. ..           | Armour plates                   | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bocardes .. ..            | Timber                          | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bois de construction ..   | Woodworking Machinery           | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bois (machines à tra-     | Woodworking Machinery           | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| vailer le) .. ..          |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bois (procédés pour le    | Timber drying and               | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| séchage et la con-        | preserving .. ..                | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| servation du) .. ..       |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Boîtes .. ..              | Boxes                           | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bouées (en tôle) ..       | Buoys (Iron and Steel)          | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Bouilleurs .. ..          | Distilling (Water) Ap-          | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
|                           | paratus .. ..                   | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Boulons, rivets, écrous   | Bolts, Rivets, Nuts,            | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| vis, etc. .. ..           | Screws, etc. ..                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Boussoles .. ..           | Compasses                       | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Brasseries (installations | Brewery Plant                   | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| de) .. ..                 |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| Brevets—loi Anglaise      | Patent Law (Manufac-            | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| sur les — (manufac-       | turers under)                   | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| turiers disposés à ex-    |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |
| plotter les inventions.   |                                 | Chaudières de fer (matériel | Permanent Way                      | Engrenages (machines à     | Gear Cutters                  |

| Français.                               | Anglais.                             | Français.                                  | Anglais.                           | Anglais.                                                      | Anglais.                                     |
|-----------------------------------------|--------------------------------------|--------------------------------------------|------------------------------------|---------------------------------------------------------------|----------------------------------------------|
| Fils et câbles télégraphiques           | Telegraph Wire and Cables            | Laiton et bronze (garnitures en)           | Brass Founders and Brass Finishers | Petits chevaux attelés                                        | Pumps (Donkey)                               |
| Flitres ..                              | .. Filtering Apparatus               | Lampes ..                                  | .. Lamps                           | Pétrole (dépôts de)                                           | .. Petrol Storage                            |
| Flitres à huile ..                      | .. Oil Filters                       | Lampes incandescentes                      | .. Incandescent Lamps              | Photographie (appareils pour la)                              | .. Photography and Materials, etc.           |
| Flitres d'air ..                        | .. Filters (Air)                     | Lever de plans (instruments pour le)       | .. Files                           | Picks, Shovels, & Spades                                      | .. Picks, Shovels, & Spades                  |
| Flitres d'eau d'alimentation            | .. Feed-Water Filters                | Limes ..                                   | .. Engines (Portable)              | Pièces de forge (bronze, laiton, cuivre, etc.)                | .. Forgings (Brass, Bronze, Copper, etc.)    |
| Fondage de puits ..                     | .. Well Engineers                    | Locomobiles ..                             | .. Engines (Locomotive)            | Pièces de forge, fer et acier                                 | .. Forgings (Iron and Steel)                 |
| Fonderies (installations Foundry Plant) | .. Foundries                         | Lubrifiant pour courroies                  | .. Belt Treatment                  | Pièces moulées et forgées en acier au manganèse               | .. Manganese Steel Castings and Forgings     |
| Fonte ..                                | .. Iron (Pig)                        | Lubrifiants et huiles                      | .. Lubricants and Oils             | Pieux (appareils à fonder)                                    | .. Pile Drivers                              |
| Fonte malléable ..                      | .. Castings (Malleable Iron)         | Lubrifiants pour machines-outils           | .. Lubricants (Cutting)            | Pieux, palplanches et sabots de pieux                         | .. Piles, Sheet Steel Piling and Sheet Shoes |
| Forêts hélicoïdaux ..                   | .. Drills (Twist)                    | Machines à fabriquer les boulons et écrous | .. Bolt and Nut-making Machinery   | Pistons et bagues métalliques                                 | .. Pistons and Piston-rings                  |
| Forges (appareils de stationnement de)  | .. Forging Machines and Plant        | Machines à fabriquer les briques et tuiles | .. Brick and Tile-Making Machinery | Plaques adressées ..                                          | .. Name Plates                               |
| Forges et aciéries (installation de)    | .. Iron and Steel Works (Plant for)  | Machines à fabriquer les cartouches        | .. Cartridge-making Machinery      | Plaques tournantes ..                                         | .. Turntables                                |
| Forges et feux de forges                | .. Smiths' Fires                     | Machines à fouiller ..                     | .. Excavators                      | Poches de fonderie ..                                         | .. Ladles                                    |
| Forges portatives ..                    | .. Forges (Portable)                 | Machines agricoles ..                      | .. Agricultural Machinery          | Poinçonneuses et cisailles                                    | .. Punching and Shearing Machines            |
| Fours au gaz et à l'huile               | .. Furnaces (Gas and Oil Heated)     | Machines à meuler ..                       | .. Grinding Machinery              | Pointes de Paris, etc.                                        | .. Nail (Wire &c.) Making Machinery          |
| Fours de tremper ..                     | .. Furnaces (Hardening)              | Machines de marine ..                      | .. Engines (Marine)                | Pompes ..                                                     | .. Engines (Pumping)                         |
| Fours de grillage ..                    | .. Kilns                             | Machines d'extraction ..                   | .. Engines (Winding)               | Pompes à air ..                                               | .. Air Pumps                                 |
| Fournisseurs de machines, etc.          | .. Merchants (Machinery, etc.)       | Machines à essayer les métaux              | .. Testing Machines                | Pompes à vide ..                                              | .. Pumps (Vacuum)                            |
| Foyers de chaudières ..                 | .. Boiler Furnaces                   | Machines fixes ..                          | .. Engines (Stationary)            | Pompes à centrifuges ..                                       | .. Pumps (Centrifugal)                       |
| Foyers et accessoires ..                | .. Furnaces and Fittings             | Machines frigorifiques ..                  | .. Refrigerating Machinery         | Pompes d'alimentation ..                                      | .. Pumps (Donkey)                            |
| Foyers ondulés ..                       | .. Corrugated Boiler Furnaces        | Machines hydrauliques                      | .. Hydraulic Machinery             | Pompes et installations d'équipement                          | .. Pumps and Pumping Machinery               |
| Fraises finies et non taillées          | .. Milling Cutters and Cutter Blanks | Machines à mouler ..                       | .. Moulding Machinery              | Pompes pour les colonies                                      | .. Pumps (Colonial)                          |
| Freins électriques ..                   | .. Brake Solenoids                   | Machines à souder ..                       | .. Welding and Cutting             | Pompes turbines ..                                            | .. Pumps (Turbine)                           |
| Freins (pour matériel roulant)          | .. Brakes (Railway)                  | Machines à souder et cisailier             | .. Welding and Cutting Plant       | Ponts ..                                                      | .. Bridges (voir Structural Engineering)     |
| Freins hydrauliques ..                  | .. Brakes (Water)                    | Machines soufflantes ..                    | .. Engines (Blowing)               | Portes étanches ..                                            | .. Doors (Watertight)                        |
| Fûts ..                                 | .. Dynamometers                      | Magnètes ..                                | .. Magnets                         | Poteaux, Supports ..                                          | .. Poles, Posts and Standards                |
| Fûts (Machines à fabriquer les briques) | .. Bricks-making Machinery           | Malaxeurs ..                               | .. Mixers                          | Poterie (installation de)                                     | .. Pottery and Encaustic The Machinery       |
| Gabarres ..                             | .. Lighters (voir Barges)            | Malaxeurs à béton ..                       | .. Concrete Mixers                 | Poudre et coton-poudre (installations pour la fabrication de) | .. Gunpowder and Cotton Machinery            |
| Galvanisation (installations pour la)   | .. Galvanizing (Plant for)           | Mandrins ..                                | .. Chucks                          | Poulies de transmission, en bois                              | .. Pulley-blocks (Pulleys (Wood))            |
| Galvanisation (Usines de)               | .. Galvanisers                       | Manomètres ..                              | .. Gauges (Pressure)               | Poulies de transmission, fer et acier                         | .. Pulleys (Wrought Iron and Steel)          |
| Garniture de frein ..                   | .. Brake and Clutch Linings          | Marchands de fer ..                        | .. Iron Merchants                  | Poulies de transmission, en fonte                             | .. Pulleys (Cast-iron)                       |
| Garnitures de chaudières                | .. Boiler Mountings                  | Marteaux conduits mécaniquement            | .. Power Hammers                   | Presses à papier ..                                           | .. Copying Presses                           |
| Garnitures de presse-étoupes            | .. Packing (Engine and Hydraulic)    | Marteaux de forge ..                       | .. Steam Hammers                   |                                                               |                                              |
| Garnitures de trous d'homme             | .. Boiler Manholes                   |                                            |                                    |                                                               |                                              |



|                                                  |                                          |                                                       |                                           |
|--------------------------------------------------|------------------------------------------|-------------------------------------------------------|-------------------------------------------|
| Garnitures et accessoires pour machines à vapeur | Furniture and Fittings for Steam Engines | Presses à coton                                       | Cotton Presses                            |
| Gaz comprimé (Bouteilles et accessoires)         | Compressed Gas (Bottles and Accessories) | Presses à forger                                      | Forging Presses                           |
| Gaz d'installation d'usines                      | Gasworks (Plants for)                    | Presses hydrauliques                                  | Hydraulic Presses                         |
| Gazogènes                                        | Gas-producers                            | Presses mécaniques                                    | Mechanical Presses                        |
| Gaz (oxygène, etc.)                              | Gases (Oxygen, &c.)                      | Presses d'eau                                         | Hydrants                                  |
| Glace (machines à faire la glace)                | Ice-making Machines                      | Produits chimiques (appareils pour la fabrication de) | Chemical Works (Plant for)                |
| Gouvernal (appareils pour la manœuvre)           | Steering Gear                            | Projecteurs                                           | Search-lights                             |
| Graisseurs                                       | Lubricators                              | Puits artésiens                                       | Tube Wells                                |
| Graphite (pour lubrifiant, etc.)                 | Graphite (Lubricating, &c.)              | Pulvérisation (broyeurs pour la)                      | Pulverisers                               |
| Grues, ponts roulants, treuils, etc.             | Cranes, Travellers, Winches, &c.         | Purgeurs automatiques                                 | Steam Traps                               |
| Gyroscopes                                       | Gyroscopes                               | Pyromètres et thermomètres                            | Pyrometers and Thermometers               |
| Hélices                                          | Propellers                               | Rails (acier et fer)                                  | Rails (Steel and Iron)                    |
| Hélices et ailes d'hélices                       | Screw Propellers and Propeller Blades    | Réchauffeurs d'eau d'alimentation                     | Feed-water Heaters                        |
| Horloges de contrôle                             | Time-checking Machines and Registers     | Réducteurs de vitesse                                 | Gearing (Speed-reducing)                  |
| Houillères                                       | Coal Mines                               | Réfrigérants à chemins et autres                      | Water-cooling Plant (voir Cooling Towers) |
| Houillères (installations pour)                  | Colliery Proprietors and Coal Mines      | Régulateurs d'alimentation                            | Feed-water Regulators                     |
| Huilleries (installations d')                    | Oil Mill Machinery                       | Régulateurs (pour machines)                           | Governors (Engine)                        |
| Huiles (réupérateurs d')                         | Oil Extractors                           | Remorqueurs                                           | Tugboats                                  |
| Indicateurs de torsion                           | Torsion Meters                           | Ressorts (Machines à fabriquer les)                   | Springs and Coils (Machinery for making)  |
| Indicateurs du vide, etc.                        | Vacuum and Hydraulic Indicators          | Revetements calorifuges                               | Non-conducting Compositions               |
| Indicateurs (machines à vapeur et moteurs à gaz) | Steam and Gas-engine Indicators          | Riveteuses                                            | Riveting Machines                         |
| Ingénieurs conseils, inspecteurs et inspecting)  | Engineers (Consulting and Inspecting)    | Riz (installations pour monder et perler le)          | Rice-dressing Machinery                   |
| Ingénieurs mécaniciens (Consulting)              | Mechanical Engineers (Consulting)        | Roues à auge                                          | Water-wheels                              |
| Injecteurs                                       | Injectors                                | Roues dentées                                         | Wheels (Gearing)                          |
| Inspecteurs de chaudières                        | Boiler Inspection Societies              | Roues de chemins de fer                               | Wheels (Railway)                          |
| Inspecteurs, experts                             | Surveyors, &c.                           | Roues d'engrenage                                     | Wheels (Raw-hide)                         |
| Installations sanitaires                         | Sanitary Appliances                      | Roues (machines à tailler les roues)                  | Wheel-cutting Machinery                   |
| Instruments pour des- sinateurs                  | Drawing Instruments                      | Rouleaux à vapeur pour routes                         | Road Rollers (Steam)                      |
| Instruments scientifiques                        | Mathematical Instruments                 | Roulements (à rouleaux et à billes)                   | Bearings (Ball and Roller)                |
| Instruments                                      | Scientific Instruments                   | Sable de moulage                                      | Sand (Moulding)                           |
| Isolants                                         | Insulating Materials                     | Scies (fabricants de)                                 | Saw-makers                                |
| Isolant "Woodite"                                | "Woodite"                                | Séparateurs (pour lait- crèmes)                       | Cream Separators                          |
| Joints de tuyaux                                 | Jointing Materials                       | Séparateurs (pour machines à vapeur)                  | Steam Separators                          |
| Laine de bois (Machines à fabriquer la)          | Woodwool Machinery                       | Sièges de soupapes                                    | Valve Reseating Machines (Fraiseuses à)   |
|                                                  |                                          | Signaux de chemins de fer                             | Railway Signals                           |
|                                                  |                                          | Sirènes et sifflets                                   | Sirens and Whistles                       |

| Français.                                                     | Anglais.                                                                | Français.                                                      | Anglais.                                                               | Français.                                           | Anglais.                                                    |
|---------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------|
| Solénoides de freinage<br>Sonneries et signaux<br>électriques | Solenoids (Brake)<br>Electric Bells and Sig-<br>nals                    | Tôles découpées (et ma-<br>chines pour la fabrica-<br>tion de) | Sheet Metal-work and<br>Machinery                                      | Tuiles vernies (machines<br>pour la fabrication de) | Pottery and Encaustic<br>Tile Machinery                     |
| Soudures .. ..                                                | Solders                                                                 | Tôles découpées, fer et<br>acier                               | Stampings (Iron and<br>Steel)                                          | Turbines .. ..                                      | Turbines                                                    |
| Soupapes (à gaz, vapeur,<br>eau, etc.)                        | Valves (Gas, Steam,<br>Water, etc.)                                     | Tôles embouties et à<br>bord tombé                             | Plates (Dished and<br>Flanged)                                         | Turbines à vapeur et<br>accessoires                 | Steam Turbines and<br>Fittings                              |
| Soupapes de réduction<br>Feed Check Valves                    | Valves (Reducing)                                                       | Tôles, fer et acier                                            | Plates (Iron and Steel)                                                | Tuyaux de vapeur                                    | Steam Pipes                                                 |
| Soupapes de retenue<br>d'eau d'alimentation                   | Valves (Combination)                                                    | Tôles perforées .. ..                                          | Perforated Metals                                                      | Tuyaux en fonte (fabri-<br>cants de)                | Pipe Founders                                               |
| Soupapes de sûreté, in-<br>dicateurs, etc.                    | Safety Apparatus and<br>Valves (Safety)                                 | Tornilleurs .. ..                                              | Torpedo Boats                                                          | Tuyaux soudés .. ..                                 | Pipes (Large and Lap-<br>welded)                            |
| Sucre (installations pour<br>la fabrication)                  | Sugar Machinery                                                         | Tournevis-compteurs<br>Tracteurs .. ..                         | Engines (Tractors) <i>voir</i><br>aussi Tractors (Oil,<br>Steam, etc.) | Tuyaux toile, cuir ou<br>caoutchouc                 | Hose Pipes                                                  |
| Surchauffeurs .. ..                                           | Superheaters                                                            | Tramways .. ..                                                 | Tramways                                                               | Vannes .. ..                                        | Sluices                                                     |
| Tableaux de distribu-<br>tion et accessoires                  | Switchboards and ac-<br>cessories                                       | Transmetteurs d'ordres<br>à bord                               | Telegraphs (Engine and<br>Steering)                                    | Ventilateurs .. ..                                  | Fans and Blowers (Ven-<br>tilators and Air Pro-<br>pellers) |
| Tampons .. ..                                                 | Buffers                                                                 | Transmissions et acces-<br>soires                              | Shafting and Shaft Fit-<br>tings                                       | Vêtements de travail ..                             | Boiler Suits ( <i>voir</i> Over-<br>alls, &c.)              |
| Tanneurs et corroyeurs                                        | Tanners and Curriers                                                    | Transmissions par en-<br>grainages, etc.                       | Mill-gearing, Shafing,<br>etc.                                         | Vidange (Pompes de)                                 | Cesspool Exhausters                                         |
| Télégraphes (instru-<br>ments de)                             | Telegraph Instruments                                                   | Transporteurs .. ..                                            | Transporters                                                           | Vitrerie .. ..                                      | Glazing                                                     |
| Téléphones .. ..                                              | Telephones                                                              | Transporteurs aériens                                          | Rope Tramways                                                          | Voies suspendues .. ..                              | Runways                                                     |
| Thé (appareils pour pré-<br>parer les feuilles de)            | Tea-dressing Machinery                                                  | Transporteurs de char-<br>bon                                  | Coal-handling Plant                                                    | Voies (appareils à sou-<br>lever les)               | Rail-lifters                                                |
| Thermomètres .. ..                                            | Thermometers ( <i>voir</i><br>Pyrometers and Ther-<br>mometers)         | Traverses de chemins de<br>fer                                 | Sleepers (Railway)                                                     | Voutures de chemins de<br>fer                       | Carriage<br>Builders                                        |
| Tirage forcé et par aspi-<br>ration (installations<br>pour)   | Forced and Induced<br>Draught Apparatus                                 | Treillis .. ..                                                 | Windlasses, Winches<br>( <i>voir</i> Cranes)                           | Vulcanite et fibre vul-<br>canisée                  | Vulcanite and Vulcan-<br>ised Fibre                         |
| Tôitures métalliques ..                                       | Roofs (Iron, Steel, and<br>Zinc, <i>voir</i> Structural<br>Engineering) | Trieuses magnétiques ..                                        | Separators, Magnets, etc.                                              | Wagons automobiles ..                               | Wagons, Self-Propelled<br>( <i>voir</i> Motor Vehicles)     |
| Tôles minces (Pièces sou-<br>dées en)                         | Sheet Metal Work<br>(Welded)                                            | Tubes de niveau d'eau ..                                       | Gauge Glasses                                                          | Wagons basculant ..                                 | Wagons (Tip)                                                |
|                                                               |                                                                         | Tubes (fer et acier) ..                                        | Tubes (Iron and Steel)                                                 | Wagons (constructeurs<br>de)                        | Wagon (Railway) Build-<br>ers                               |
|                                                               |                                                                         | Tubes (lait et cuivre)                                         | Tubes (Brass and Cop-<br>per)                                          | Yachts .. ..                                        | Yachts                                                      |
|                                                               |                                                                         | Tubes métalliques (ma-<br>chines à fabriquer les)              | Tube-making Machinery                                                  |                                                     |                                                             |

**MEMORANDÀ.**

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(RUSSIAN GLOSSARY). ПЕРЕВОДЪ НАЗВАНІЙ ОТДѢЛОВЪ,  
по которымъ въ данной брошюрѣ распределены предметы, объявленія на которые  
были помѣщены въ "ENGINEERING."

| По-русски.                                      | По-англійски.                        | По-русски.                             | По-англійски.                       | По-русски.                                      | По-англійски.                          |
|-------------------------------------------------|--------------------------------------|----------------------------------------|-------------------------------------|-------------------------------------------------|----------------------------------------|
| Автомобилъ ...                                  | Motor Vehicles                       | Двигатели, газопые ...                 | Engines (Gas)                       | Катки паровые для                               | Road Rollers (Steam)                   |
| Агенты для патентовъ                            | Patent Agents                        | Двигатели, гидравлическіе              | Hydraulic Machinery                 | Утрамбовка дорогъ и                             |                                        |
| Аккумуляторы, электрические                     | Accumulators (Electric)              | Двигатели для жидкого топлива          | Engines (Oil)                       | Кирпы, зонаты и                                 | Picks, Shovels and Spades              |
| Алюминій и продукты, выходящие изъ алюминія     | Aluminium and Aluminium Goods        | Двигатели для подъема грузовъ          | Engines (Winding)                   | Кирпичи огнеупорные (См. Материалъ огнеупорный) | Fire Bricks (See Refractory Materials) |
| Аппараты для очистки воды                       | Water-purifying apparatus            | Двигатели для паровыхъ ходовъ          | Engines (Marine)                    | Клпана питательной воды, автоматическіе         | Feed Check Valves (Combination)        |
| Аппараты пусковые для электрическихъ двигателей | (Cm. Motor Starters)                 | Двигатели, керосиновые                 | Engines (Petrol)                    | Клпана для газопы, пара, воды и проч.           | Valves (Gas, Steam, Water etc.)        |
| Арбитражи                                       | Arbitrators                          | Двигатели, неподвижные                 | Engines (Stationary)                | Клпана для уменьшенія давленія                  | Valves (Reducing)                      |
| Арматура для паровыхъ двигателей и котловъ      | Engine and Boiler Fittings           | Двигатели, переносные                  | Engines (Portable)                  | Клпана и предохранительные                      | Safety Apparatus and Valves (Safety)   |
| Арматура железнодорожныхъ вагоновъ              | Carriage (Railway) Fittings          | Двигатели, электрические               | Electric Motors                     | Клпана, предохранительные                       | Valves (Safety)                        |
| Арматура железноположныхъ и прочихъ вагоновъ    | Railway and other Carriage Fittings  | Деструкторы ...                        | Destructors                         | Ковши ...                                       | Ladles                                 |
| Арматура железноположныхъ и прочихъ вагоновъ    | Furniture and Fittings (M tal, etc.) | Деструкторы-сжигатели                  | Furnaces for Destroying Refuse      | Колеса, водяные                                 | Water-wheels                           |
| Арматура (металлическая и проч.)                | Acetylene                            | Дизинтеграторы ...                     | Disintegrators                      | Колеса для жпзнодорожъ                          | Wheels (Railway)                       |
| Аэропланы                                       | Aeroplanes                           | Динамо ...                             | Dynamometers                        | Колеса пзъ, козьи                               | Wheels (Raw-hide)                      |
| Аэропланы и гидронавы                           | Drums                                | Динамометры ...                        | Jacks (Lifting)                     | Колеса, зубчатые                                | Wheels (Gearing)                       |
| Ваки (См. Tanks and Drums)                      | Girders                              | Дороги железныя, легкія и переносныя   | Railways (Light and Portable)       | Компасы                                         | Compasses                              |
| Ваки ...                                        | Joists Rolled (Iron and Steel)       | Доски распределительныя и арматура ихъ | Switchboards and accessories        | Компрессоры для газопы, (высокаго давленія)     | Compressors (High Pressure)            |
| Ваки прокатаныя (железные и стальные)           | Barges and Lighters (Iron and Steel) | Дощечки для нашивки                    | Name Plates                         | Конвейеры                                       | Conveyors                              |
| Ваки и пашкоты (железные и стальные)            | Cooling Towers                       | Дубовышка кожъ ...                     | Tanners and Curriers                | Конденсоры для паропы                           | Condensers for Steam Engines           |
| Ваши для охладенія воды                         | Petrol and its Substitutes           | Железо-бетонъ                          | Armoured Concrete                   | Конденсоры (испарительные)                      | Condensers (Evaporative)               |
| Ваниты и ванитные его продукты                  | Concrete (Plain and Reinforced)      | Железо-бетонъ                          | Ferro-Concrete                      | Конденсоры пріеимой воды                        | Condensers (Fresh Water)               |
| Бетонъ и железобетонъ                           | Bolts, Rivets, Nuts, Screws, etc.    | Железо, листовое                       | Iron Founders Bars (Steel and Iron) | Контргайки и тому подобная приспосовленія       | Lock-nuts and Nut Locking Appliances   |
| Болты, заклонки, гайки, винты и проч.           | Armour-plates                        | Закладки, электрическія                | Igniters (Electric)                 | Копры ...                                       | Pile Drivers                           |
| Броня ...                                       | Tugboats                             | Звонки и сигналы, электрическіе        | Rivets Electric Signals             | Косильныя, рабочія и пр.                        | Boiler Suits (Cm. Overalls, etc.)      |
| Бушприты ...                                    | Buoys (Iron and Steel)               | Землесосы ...                          | Dredgers (Suction)                  | Котельные циркуляторы                           | Boiler Circulators                     |
| Буа (железные и стальные)                       |                                      |                                        |                                     | Котлы, водотрунные                              | Boilers (Water-tube)                   |

|                                                      |                                                             |                                                                               |                                                                   |                                                               |                                         |
|------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------|-----------------------------------------|
| Буфера ...                                           | Буфера                                                      | Заделочники<br>Землеройники для во-<br>зможности порою                        | Дredging Machines<br>Gold Dredgers                                | Котлы, паровые ...<br>Краны ...<br>Краны для подъема<br>мачт  | Boilers (Steam)<br>Cocks<br>Shearlegs   |
| Вагоны-автомобили ...                                | Wagons, Self-propelled<br>(Cm. Motor Vehicles)              | Издатели ...<br>Импринтеры ...<br>Импринтеры для скру-<br>чивания             | Publishers<br>Tension Meters                                      | Краны, подъемные ма-<br>шины, траверслеры,<br>лебедки и проч. | Cranes, Travellers,<br>Winches, etc.    |
| Вагны, колыччатые ...                                | Cupolas                                                     | Индикаторы с приво-<br>дом изъ. и газовой                                     | Indicators (Steam and<br>Gas Engine)                              | Краска, лаки и проч.                                          | Paints, Varnishes, etc.                 |
| Вагны, приводные и<br>аркатура къ нимъ               | Shafts and Shaft Fit-<br>tings                              | Двигатели консоль-<br>ные                                                     | Engineers (Consulting<br>and Inspecting)                          | Краска, типографскія<br>Круги, наждачные ...                  | Inks                                    |
| Вагны для мукомоль-<br>ныхъ мельницъ                 | Rolls (Chilled and<br>Grain)                                | Инженеры - механики,<br>консультанты, пнев-<br>матический, пнев-              | Mechanical Engineers<br>(Consulting)                              | Круги, поворотные ...                                         | Turnbells                               |
| Вентиляторы ...                                      | Ventilators                                                 | Инструменты, ручные<br>и малые                                                | Pneumatic Tools                                                   | Краски желейные,<br>стальные и цинко-<br>вые                  | Crimes (Iron, Steel and<br>Engineering) |
| Вентиляторы, вытяж-<br>ные и научные                 | Fans and Blowers (Ven-<br>tilators and Air Pro-<br>pellers) | Инструменты, астро-<br>номические, теле-<br>графной службы                    | Tools (Hand and Small)<br>(Cm. Machine Tools)                     | Краски для лаковъ ...                                         | Manhole Doors                           |
| Вентиляторы для вы-<br>качивания газовъ              | Gas Exhaustors                                              | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Astronomical Instru-<br>ments                                     | Кузнечные, переосны                                           | Forges (Portable)                       |
| Вентиляторы (см. так-<br>же воздухоуловы)            | Ventilators (See also<br>Fans and Blowers)                  | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Telegraph Instruments                                             | Лампы в котлахъ ...                                           | Boiler Manholes                         |
| Верфи ...                                            | Fans and Blowers)                                           | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Boring and Sinking<br>Tools and Machinery<br>for Shafts and Wells | Лампочки ...                                                  | Incandescent Lamps                      |
| Виты воздушные (для<br>аэронавтовъ)                  | Propellers (Air)                                            | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Scientific Instruments                                            | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Виты и лопасты къ<br>лопастямъ                       | Screw Propellers and<br>Propeller Blades                    | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Second-hand Tools                                                 | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Виты для угольныхъ<br>кошек                          | Colliery Propellers                                         | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Drawing Instruments                                               | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Водоохладители ...                                   | Water-cooling Plant<br>(Cm. Cooling Towers)                 | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Electric Tools                                                    | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Воздухоуловы ...                                     | Engines (Blowing)                                           | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Evaporator (Cm. Dis-<br>tilling (Water) Ap-<br>paratus)           | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Ворота; лебедки                                      | Windlasses, Winches<br>(Cm. Cranes)                         | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Cables (Electric Light,<br>Telegraph and Tele-<br>phone)          | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Вулканизаторы и вулка-<br>низаторная фабрика         | Vulcanite and Vul-<br>canised Fibre                         | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Gauges (Measuring)<br>Stone-breakers<br>Grindstones               | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Вѣсы ...                                             | Weighing Machines                                           | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Ropes (Driving)                                                   | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газы сжатые (Резер-<br>вуары и арматура<br>для нихъ) | Compressed Gases<br>(Bottles and Fit-<br>tings for)         | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Pencils (See Drawing<br>Instruments)                              | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газы (газовы) для<br>выкачивания                     | Gases (Plant for pro-<br>ducing)                            | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Carburettors and Va-<br>porisers                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газоводопроводы, газовые                             | Gas-producers                                               | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Launches and Yachts                                               | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые ...                                          | Hydrants                                                    | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые ...                                          | Gyroscopes                                                  | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, кузнечные ...                               | Smiths' Fires                                               | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, конденсаци-<br>онные                        | Steam Traps                                                 | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, газовые ...                                 | Burners (Gas)                                               | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, газовые ...                                 | Lightning Conductors                                        | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, газовые ...                                 | Screens                                                     | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, газовые ...                                 | Doors (Watertight)                                          | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |
| Газовые, газовые ...                                 | Engines (Air)                                               | Инструменты, астро-<br>номические, астро-<br>номические, астро-<br>номические | Категория и яхта                                                  | Латуны, литейная и<br>отливочная                              | Brass Founders and<br>Brass Finishers   |



[illegible]

| По-русски.                                         | По-английски.                   | По-русски.                               | По-английски.                                            | По-русски.                                          | По-английски.                          |
|----------------------------------------------------|---------------------------------|------------------------------------------|----------------------------------------------------------|-----------------------------------------------------|----------------------------------------|
| Приводы для клапанов                               | Valve Gear                      | Станки для вытискивания                  | Gear-cutters                                             | Фабриканты                                          | Manufacturers (Cm. Patent Law)         |
| Приводы для перемены хода для моторных локомотивов | Reversing Gears (Motor Boat)    | Станки для изготовления колец            | T u b e m a k i n g Machinery                            | Фабриканты железнодорожных товаров                  | Wagon (Railway) Builders               |
| Приводы для уменьшения скорости                    | Gearing (Speed Reducing)        | Станки для нарезания колец               | Wheel-cutting Machinery                                  | Фабриканты кислот и других газов                    | Gases (Oxygen, etc.)                   |
| Приводы зубчатые                                   | Gearing                         | Станки для обработки металлов            | Machine Tools (Cm. Tools, hand small; second hand Tools) | Фабриканты математических инструментов              | Mathematical Instrument Makers         |
| Приводы из кожаных ремней                          | Gears (Rawhide)                 | Станки для обработки металлов            | Sheet Metal-work and Machinery                           | Фабриканты моделей                                  | Model Makers                           |
| Приводы, приводные валы и проч.                    | Mill-gearing, Shafting, etc.    | Станки для изготовления стальных изделий | Wood-working Machinery                                   | Фабриканты пил                                      | Saw-makers                             |
| Приводы, рулевые                                   | Steering Gear                   | Станки для обработки дерева              | Punching and Shearing Machines                           | Фабриканты по исполнению требований патента         | Patent Law (Manufacturers under)       |
| Приводы, червячные                                 | Worm Gearing                    | Станки для обработки металлов            | Rolling Mill Machinery                                   | Фабриканты рам для железнодорожных вагонов          | Carriage (Railway) Builders            |
| Приводы для фотография                             | Photography and Materials, etc. | Станки для пробивания дыр                | Draw Benches                                             | Фабриканты стали и железа                           | Steel and Iron Makers                  |
| Приводы, боевые                                    | Ammunition                      | Станки для прокатки                      | Shearing Machines                                        | Фабриканты электрических двигателей, прессы и проч. | Electrical Engineers                   |
| Приводы, для артиллерии                            | Soldiers                        | Станки для протягивания проволоки        | Slotting and Shaping Machines                            | Фабриканты фильтров для масла                       | Filtering Apparatus                    |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Saw Mill Machinery                                       | Фабриканты воздушных фильтров                       | Oil Filters                            |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Planing Machines                                         | Фабриканты кормовых насосов                         | Feed-water Filters                     |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Looms                                                    | Фабриканты гальванических ванн                      | Galvanizers                            |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Gauge Glasses                                            | Фабриканты песка (молотка)                          | Sand (Moulding)                        |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Poles, Posts and Standards                               | Фабриканты шлифовальных кругов                      | Milling Cutters and Cutter Blanks      |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Timber Buildings (Iron and Steel)                        | Фабриканты обшивки вагонов                          | Overalls for Engineers, etc.           |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Switches and Crossings                                   | Фабриканты цемента                                  | Cement                                 |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Shipbuilders                                             | Фабриканты центрифуг                                | Centrifugal Drying Machines            |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Counters for Revolutions                                 | Фабриканты мостовых вышек                           | Bridge Foundation Cylinders            |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | CO <sub>2</sub> Records                                  | Фабриканты цистерн и баков                          | Tanks and Drums                        |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Hydraulic Rams                                           | Фабриканты цепей и канатов                          | Chains and Cables                      |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Barrows                                                  | Фабриканты гальванических ванн                      | Galvanizers                            |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Textile Machinery                                        | Фабриканты часов (часов и часов)                    | Clocks (Cm. Watches and Clocks)        |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Telegraphs (Engine and Steering)                         | Фабриканты карманных часов                          | Watches and Clocks                     |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Telephones                                               | Фабриканты часов контроля времени                   | Time - checking Machines and Registers |
| Приспособления для пуска моторов в холостом ходу   | Motor Starters and Accessories  | Станки для изготовления стальных изделий | Wagons (Tip)                                             |                                                     |                                        |



| Ремни передаточные (кожаные, полотняные и проч.)                                | Belting (Leather, Canvas, etc.)                                   | Термометры ...                       | Thermometers (Cm. Thermometers)                              | Чертежи, кальки и проч. Чугун...   | Drawings, Tracings, etc. Iron (Pig)      |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------|------------------------------------|------------------------------------------|
| Самохваты. Захваты Свай, стальные шпунты, тросов заграждение и башмаки для свай | Grabs Piles, Sheet Steel Piling and Pile Shoes                    | Тигли ... ..                         | Boiler Furnaces Crucibles                                    | Шины, резиновые ...                | Tyres (Rubber) Cabinets (Engineers')     |
| Сварка металлических листов                                                     | Sheet-metal Work (Welded)                                         | Топки, котельные, горюфранованные    | Stokers (Mechanical) Oil Fuel                                | Шкафы нестарые                     | Sales Pulleys (Wood)                     |
| Сверла ... ..                                                                   | Drills (Twist)                                                    | Топливо жидкое ...                   | Iron Merchants                                               | Шкафы, деревянные ...              | Pulleys (Cast Iron)                      |
| Сверла для каменных порошков                                                    | Rock Drills                                                       | Торговцы железом ...                 | Brakes (Railway)                                             | Шкафы, чугунные ...                | Pulleys (Wrought Iron and Steel)         |
| Сепараторы, магнетит и проч.                                                    | Separators, Magnets, etc.                                         | Тормоза, железноружные               | Brake Solenoids (Cm. Solenoids)                              | Шланги ... ..                      | Hose Pipes                               |
| Сигналы, железноружные                                                          | Railway Signals                                                   | Тормоза-солоноиды ...                | Solenoids (Brake)                                            | Шлемы для работы в поющих дымог... | Smoke Helmets, etc.                      |
| Сирены и свистки ...                                                            | Sirens and Whistles                                               | Тормазаэлектрические                 | Engines (Traction)                                           | Шлюзы ... ..                       | Sluices                                  |
| Скалды, лѣтные ...                                                              | Timber                                                            | Тракторы (нефтяные, паровые и проч.) | Tractors (Oil, Steam, etc.)                                  | Шлюпки ... ..                      | Boats                                    |
| Сертупление для перелаточных ремней                                             | Belt Fasteners                                                    | Трамваи и оборудованье их            | Tramways and Trampway Plant                                  | Шпалы для железных дорог           | Sleepers (Railway)                       |
| Сливкоотделители ...                                                            | Cream Separators                                                  | Трамваи, канатные ...                | Way Plant                                                    | Шпильки, конусные ...              | Capstans (Steam, Hydraulic and Electric) |
| Слюда ... ..                                                                    | Mica                                                              | Транспортеры                         | Transporters                                                 | Шпильки, конусные ...              | Pins (Taper)                             |
| Смазка ... ..                                                                   | Lubricants and Oils                                               | Трубопильные                         | Pipe Foundries                                               | Шпильки, конусные ...              | Stampings (Iron and Steel)               |
| Смазка жидкая для предметов, обхлываемых на станках                             | Lubricants (Cutting)                                              | Трубы, большие и сварные             | Pipes (Large and Lap-welded)                                 | Шпильки, конусные ...              | Stampings (Brass, Bronze, Copper, etc.)  |
| Смазка из графита и проч.                                                       | Graphite (Lubricating, etc.)                                      | Трубы для колодезь и стальные        | Tube Wells Tubes (Iron and Steel)                            | Шпильки, конусные ...              | Dust-Shields for Bearings                |
| Соединения для валов железноружных                                              | Couplings (Shaft)                                                 | Трубы латунные и медные              | Tubes (Brass and Copper)                                     | Шпильки, конусные ...              | Ebonite Injectors                        |
| Соединения для ступи железноружных                                              | Couplings (Railway)                                               | Трубы обшивочные деревом             | Pipes (Wood Lined)                                           | Шпильки, конусные ...              | Ashejectors Economisers                  |
| Состав для котлов, не проводящий тепло                                          | Composition for Governing Boilers                                 | Трубы паропроводные                  | Steam Pipes                                                  | Шпильки, конусные ...              | Excavators                               |
| Составь подкажной для железных дорог                                            | Railway Rolling Stock (Cm. Carriage, Wagon and Engine-Locomotive) | Трубы, фабричные ...                 | Chimneys                                                     | Шпильки, конусные ...              | Hydro-extractors                         |
| Составь для предождения ржавления                                               | Rust Preventive                                                   | Трубы, чугунные ...                  | Pipes (Wrought-iron and Steel)                               | Шпильки, конусные ...              | Elevators (Grain, Coal, etc.)            |
| Составы не пропускающие тепло                                                   | Non-conducting Compositions                                       | Трубины водяные ...                  | Turbines (Water)                                             | Шпильки, конусные ...              | Electric Accumulators (See Accumulators) |
| Сплав ... ..                                                                    | Alloys (Cm. Metals, etc.)                                         | Трубины паровые и арматура к ним     | Steam Turbines and Fittings                                  | Шпильки, конусные ...              | Yachts                                   |
| Сталь и проч. металлы, тросовые                                                 | Pressed Steel and Metal Work                                      | Турники ... ..                       | Draught                                                      | Шпильки, конусные ...              | Boxes (for tools, shells, etc.)          |
| Сталь, инструментальная, спечальная и быстходная                                | Steel (Tool, Special and High Speed)                              | Указатели скорости и счетчики        | Speed Indicators and Counters (Cm. Counters for Revolutions) | Шпильки, конусные ...              | Packing Cases and Packing Material       |
| Сталь, инструментальная, спечальная и быстходная                                | Steel (Tool, Special and High Speed)                              | Уравнители температуры               | Temperature Equalisers                                       | Шпильки, конусные ...              |                                          |
| Сталь, поваренная                                                               | Bars (Steel and Iron)                                             | Установки, котельные                 | Boiler Mountings                                             | Шпильки, конусные ...              |                                          |
| Станки для выгибания рельс                                                      | Rail-benders                                                      | Участки пох фабрики и заводы         | Sites (Industrial)                                           | Шпильки, конусные ...              |                                          |

(SPANISH GLOSSARY). TRADUCCION DE LOS TITULO

con que están clasificados en este libro los anuncios que publica "ENGINEERING."

| Español.                                                     | Inglés.                                                   | Español.                                           | Inglés.                                                       | Español.                                 | Inglés.                                |
|--------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|------------------------------------------|----------------------------------------|
| Accesorios para calderas y aparatos de medida                | Boiler Mountings and Scientific Apparatus                 | Bombas para las colonias                           | Pumps (Colonial)                                              | Construcciones de hierro galvanizado     | Iron Buildings galvanized              |
| Acero-manganeso (Piezas fundidas y forjadas)                 | Manganese Steel Castings and Forgings                     | Bombas turbinas                                    | Pumps (Turbine)                                               | Contadores ..                            | Speed Indicators and Counters          |
| Acilteras ..                                                 | Oil-cans                                                  | Boys (de hierro y acero)                           | Buys (Iron and Steel)                                         | Contadores de vueltas                    | Counters (for revolutions)             |
| Acero para herramienta especial y rápido                     | High-speed Steel (Tool, Special and High-speed)           | Bronce (piezas fundidas en—y terminadas de ajuste) | Brass Foundry and Brass Finishers                             | Contadores de agua                       | Water Meters                           |
| Acero y metal-troqueado (Piezas de)                          | Work Pressed Steel and Metal Work                         | Brújulas ..                                        | Compasses                                                     | Contadores varios                        | Meters                                 |
| Aceros moldeados                                             | Castings (Steel)                                          | Baques con motor de petróleo                       | Motor Boats                                                   | Corchetes para cerrar correas            | Belt Fasteners                         |
| Acompañamientos de arboles                                   | Couplings (Shaft)                                         | Cables ..                                          | Cables (Electric Light, Telephone and Cable Laying Machinery) | Correas de cuero, tela, etc.             | Belting (Leather, Canvas, etc.)        |
| Accumuladores eléctricos                                     | Accumulators (Electric)                                   | Cables ..                                          | Cables (Electric Light, Telephone and Cable Laying Machinery) | Corredores de rieles                     | Rail-benchers                          |
| Acufar (Máquinas de)                                         | Mint Machinery                                            | Cables eléctricos                                  | Electric Cables                                               | Cribas ..                                | Screens                                |
| Aeroplanos e hidroplanos                                     | Aeroplanes and Hydroplanes                                | Cables submarinos (Aplicados para colocarlos)      | Submarine Cables                                              | Cruciales                                | Crucibles                              |
| Agromensura (Instrumentos)                                   | Surveying Instruments                                     | Cabrestantes ..                                    | Winches                                                       | Cubillos                                 | Cupulas                                |
| Agentes de privilegios                                       | Patent Agents                                             | Cabrestantes de vapor                              | Steam Winches                                                 | Cuchillos de cuero                       | Leathers                               |
| Ajustamientos mecánicos (Trabajos de)                        | Mechanical Work                                           | Cadenas de engranaje ..                            | Gearing Chains                                                | Caucho (Artículos de)                    | India-rubber Goods                     |
| Aglomerados (Instalaciones para la fabricación de)           | Briquette (Machinery)                                     | Cajas ..                                           | Boxes                                                         | Cuerdas motrices                         | Ropes (Driving)                        |
| Alambre (Máquinas para tejer, enrollar, cortar y enrollarlo) | Wire Weaving, Straightening, Cutting and Coiling Machines | Cajas fuertes ..                                   | Safes                                                         | Curtidores y Zurzadores de pieles        | Tanners and Curriers of skins          |
| Alambres y cables telegráficos                               | Telegraph Wire and Cables                                 | Calders (Compañías aseguradoras de)                | Boiler Insurance Companies                                    | Dentelladoras mecánicas para rudes       | Wheel-cutting Machinery for rough work |
| Alambre y cuerdas de alambres                                | Wire and Wire Ropes                                       | Calders (Compañías para la inspección de)          | Boiler Inspection Societies                                   | Descargadores para hornos de cok         | Coke Rams                              |
| Aleaciones ..                                                | Alloys (for Metals, etc.)                                 | Calders de vapor                                   | Boilers (Steam)                                               | Descargadores centrífugos                | Centrifugal Drying Machines            |
| Alumbrado (Aparatos de)                                      | Lighting Apparatus (for various)                          | Calders multitubulares                             | Boiler Manholes                                               | Desaguche de motores                     | Motor Starters and accessories         |
| Aluminio y productos de aluminio ..                          | Aluminum and Aluminum Goods                               | Calders de colada ..                               | Coppermiths                                                   | Desincrustadores para calderas           | Boiler Scraping Appliances             |
| Amianto ..                                                   | Asbestos Goods, Fittings, etc.                            | Cambios de vida y cruzamientos                     | Switches and Crossings                                        | Desintegradores                          | Disintegrators                         |
| Ancores ..                                                   | Anchorages                                                | Campanas y aparatos de bucear                      | Diving Apparatus                                              | Destilador (Aparatos de)                 | Distillery Plant                       |
| Apacoras ..                                                  | Agricultural Machinery                                    | Cafones y piezas fraguadas para los mismos         | Guns and Gun Forgings                                         | Dibujos, calcos, etc.                    | Drawings, Tracings, etc.               |
| Aparatos de agricultura                                      | Agricultural Machinery                                    | Cafos higiénicos de drenaje, de hormigon y de gré, | Pipes (Sanitary, Drain, Reinforced and Stone-ware)            | Dinamos ..                               | over Electric Lighting Plants          |
| Aparatos de apagar incendios                                 | Fire-extinguishing Apparatus                              | Cantinas (Utensilios para)                         | Canteen Equipment                                             | Dinamómetros                             | Dynamometers                           |
| Aparatos de blanquear y pintar                               | Whitewashing and Painting Machines                        | Carburización (Materia para la)                    | Case-hardening Materials                                      | Dragas de succión                        | Dredgers (Suction)                     |
| Aparatos de calefacción                                      | Heating Apparatus                                         |                                                    |                                                               | Dragas; máquinas de cavar                | Dredging Machines                      |
|                                                              |                                                           |                                                    |                                                               | Dragas de arena aurífera                 | Gold Dredgers                          |
|                                                              |                                                           |                                                    |                                                               | Durmientes; vigas ..                     | Girders                                |
|                                                              |                                                           |                                                    |                                                               | Ebonite ..                               | Ebonite                                |
|                                                              |                                                           |                                                    |                                                               | Economizadores                           | Economisers                            |
|                                                              |                                                           |                                                    |                                                               | Edificios y tejadillos de hierro y acero | Iron and Steel Buildings               |
|                                                              |                                                           |                                                    |                                                               | Editores ..                              | Publishers                             |

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|                                                                                                     |                                                                                                   |                                                                                                         |                                                                                                       |
|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Guindastes ; gatos</b>                                                                           | <b>.. Jacks (Lifting) Winches (ver tambien) Cranes</b>                                            | <b>Máquinas de aderezar el Cloth-finishing Machinery</b>                                                | <b>Picos, palas y azadas .. Pickers, Shovels, &amp; Spades</b>                                        |
| <b>Hélices de navío y pale-<br/>tas de hélice</b>                                                   | <b>.. Screw Propellers and<br/>Propeller Blades</b>                                               | <b>Máquinas de conformar<br/>turcos</b>                                                                 | <b>Piezas estampadas .. Stampings (Brass,<br/>Bronze, Copper, etc.)</b>                               |
| <b>Herramientas actuadas<br/>por aire comprimido</b>                                                | <b>.. Pneumatic Tools</b>                                                                         | <b>Máquinas de desagüe ..<br/>Engines (Pumping)</b>                                                     | <b>Piezas forjadas (bronze,<br/>latón, cobre, etc.) .. Forgings (Brass, Bronze,<br/>Copper, etc.)</b> |
| <b>Herramientas usadas ..<br/>Herramientas eléctricas</b>                                           | <b>.. Electric Tools</b>                                                                          | <b>Máquinas de esmerilar ..<br/>Emery-grinding Machinery</b>                                            | <b>Piezas fraguadas de<br/>hierro y acero .. Forgings (Iron and<br/>Steel)</b>                        |
| <b>Herramientas y útiles</b>                                                                        | <b>.. Tools</b>                                                                                   | <b>Máquinas de extracción ..<br/>Engines (Winching)</b>                                                 | <b>Piezas forjadas en es<br/>tampa .. Steam Hammers</b>                                               |
| <b>Hidrokinetros</b>                                                                                | <b>.. Hydrokineters and tem-<br/>perature equalisers<br/>(ver tambien) Boiler<br/>Circulators</b> | <b>Máquinas de hacer ladrillos y tejas ..<br/>Brick and Tile-making Machinery</b>                       | <b>Piezas de vapor ..<br/>Pipes, Sheet Steel Piling<br/>and Pile Shoes</b>                            |
| <b>Hierro colado maleable<br/>(Piezas fundidas de)</b>                                              | <b>.. Castings (Malleable Iron)</b>                                                               | <b>Máquinas de hacer tubos ..<br/>Tube-making Machinery</b>                                             | <b>Planchas, barriques, etc.<br/>Pinturas y barnices .. Paints, Varnishes, etc.</b>                   |
| <b>Hierro en lingotes ..<br/>Hierro galvanizado ..<br/>Hilandería y tejeduría<br/>(Máquinas de)</b> | <b>.. Iron (Pig)<br/>Galvanised Ironwork<br/>Textile Machinery</b>                                | <b>Máquinas de pulimentar ..<br/>Sand Blast Machines</b>                                                | <b>Pírcnctros y termómetros ..<br/>Pyrometers and Thermometers</b>                                    |
| <b>Hogares de destruir<br/>basuras</b>                                                              | <b>.. Destructors</b>                                                                             | <b>Máquinas de punzonar ..<br/>Punching and Shearing<br/>Machines</b>                                   | <b>Placas de blindaje ..<br/>Armour-plates</b>                                                        |
| <b>Hogares ; hornos ; y ac-<br/>cesorios</b>                                                        | <b>.. Furnaces and Furnace<br/>Fittings</b>                                                       | <b>Máquinas de refrigerar ..<br/>Refrigerating Machinery</b>                                            | <b>Planchas y chapas de<br/>Plates (Iron and Steel)</b>                                               |
| <b>Hogares ondulados de<br/>calderas</b>                                                            | <b>.. Corrugated Boiler Fur-<br/>naces</b>                                                        | <b>Máquinas de remachar ..<br/>Riveting Machinery</b>                                                   | <b>Turntables ..<br/>Turntables</b>                                                                   |
| <b>Hormigón ordinario y<br/>armado</b>                                                              | <b>.. Concrete (Plain and Re-<br/>inforced)</b>                                                   | <b>Máquinas de roscar y<br/>cortar tubos ..<br/>Pipe Sawing and Cut-<br/>ting Machinery</b>             | <b>Volantes de fundición ..<br/>Pulleys (Cast-iron)</b>                                               |
| <b>Hornos de calcinación<br/>Hornos de gas y aólo ..<br/>Heated)</b>                                | <b>.. Kilns<br/>Furnaces (Gas and Oil<br/>Heated)</b>                                             | <b>Máquinas de soldar y<br/>cortar ..<br/>Welding and Cutting<br/>Plant</b>                             | <b>Poleas de hierro y acero ..<br/>Pulleys (Wrought-iron<br/>and Steel)</b>                           |
| <b>Hornos para templar ..<br/>Hulleras ..<br/>Hulleras (Instalaciones<br/>completas de)</b>         | <b>.. Furnaces (Hardening)<br/>Colliery Proprietors<br/>Colliery Plant</b>                        | <b>Máquinas de tejer ..<br/>Looms</b>                                                                   | <b>Poleas de madera ..<br/>Pulleys (Wood)</b>                                                         |
| <b>Indicadores de nivel de<br/>agua</b>                                                             | <b>.. Gauge Glasses</b>                                                                           | <b>Máquinas de tracción ..<br/>Engines (Traction) (ver<br/>tambien) Tractors (Oil,<br/>Steam, etc.)</b> | <b>Polipastos ..<br/>Pulley-blocks</b>                                                                |
| <b>Indicadores de vacío y<br/>de presión hidráulica</b>                                             | <b>.. Gauges (Pressure, Vac-<br/>uum and Hydraulic)</b>                                           | <b>Máquinas elevadoras de<br/>grano, hulla, etc.<br/>Máquinas excavadoras ..<br/>Excavators</b>         | <b>Pólvora y fundicotes ..<br/>Gunpowder and Gun-<br/>cotton Machinery</b>                            |
| <b>Indicadores (Máquinas<br/>de vapor y motores de<br/>gas)</b>                                     | <b>.. Indicators (Steam and<br/>Gas Engine)</b>                                                   | <b>Máquinas frigoríficas ..<br/>Ice-making Machines</b>                                                 | <b>Postes, Soportes ..<br/>Poles, Posts and Stand-<br/>ards</b>                                       |
| <b>Ingenieros consultantes<br/>e inspectores</b>                                                    | <b>.. Engineers (Consulting<br/>and Inspecting)</b>                                               | <b>Máquinas para comprimir el<br/>aire ..<br/>Air Compressors</b>                                       | <b>Pozos artesianos ..<br/>Artesian Wells</b>                                                         |
| <b>Ingenieros-electricistas<br/>Ingenieros mecánicos</b>                                            | <b>.. Electrical Engineers<br/>Mechanical Engineers</b>                                           | <b>Máquinas para romper<br/>rocas sumergidas ..<br/>Rock under Water</b>                                | <b>Posartesianos y varios<br/>Well Engineers</b>                                                      |
| <b>Ingenieros matemáticos<br/>Instrumentos matemáticos</b>                                          | <b>.. Mathematical Instru-<br/>ment Makers</b>                                                    | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Presas de forjar ..<br/>Forging Presses</b>                                                        |
| <b>Instrumentos telegrá-<br/>ficos</b>                                                              | <b>.. Telegraph Instruments</b>                                                                   | <b>Máquinas tripartidas ..<br/>Grading Machinery</b>                                                    | <b>Presas de forjar ..<br/>Forging Presses</b>                                                        |
| <b>Injectores</b>                                                                                   | <b>.. Injectors</b>                                                                               | <b>Martinetes mecánicos ..<br/>Drops</b>                                                                | <b>Presas hidráulicas ..<br/>Hydraulic Presses</b>                                                    |
| <b>Ladrillos refractarios ..<br/>Fire Bricks (ver Re-<br/>fractory Materials)</b>                   | <b>.. Refractory Materials</b>                                                                    | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Presas mecánicas ..<br/>Mechanical Presses</b>                                                     |
|                                                                                                     |                                                                                                   | <b>Máquinas para romper<br/>rocas sumergidas ..<br/>Rock under Water</b>                                | <b>Presas de algodón ..<br/>Cotton Presses</b>                                                        |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Presas y máquinas de<br/>impulsión de invención<br/>Patent Law (Manufac-<br/>turers under)</b>     |
|                                                                                                     |                                                                                                   | <b>Máquinas para romper<br/>rocas sumergidas ..<br/>Rock under Water</b>                                | <b>Proveedores de maqui-<br/>naria etc.<br/>Producers</b>                                             |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Puentes ..<br/>Bridges (ver tambien<br/>Structural Engineer-<br/>ing)</b>                          |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Puertas estancas ..<br/>Doors (Watertight)</b>                                                     |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Pulverizadoras ..<br/>Pulverisers</b>                                                              |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>Puntas de alfiler, &amp;c.<br/>Nail (Wire, &amp;c.),<br/>Making Machinery</b>                      |
|                                                                                                     |                                                                                                   | <b>Máquinas para compri-<br/>mirlas ..<br/>Compressors</b>                                              | <b>carcasas</b>                                                                                       |





(ITALIAN GLOSSARY). TRADUZIONE DEI NOMI DEGLI ARTICOLI  
sotto i quali sono classificati gli annunci pubblicati nel "ENGINEERING."

| Italiano.                               | Inglese.                                                             | Italiano.                      | Inglese.                                  | Italiano.                               | Inglese.                                                                   |
|-----------------------------------------|----------------------------------------------------------------------|--------------------------------|-------------------------------------------|-----------------------------------------|----------------------------------------------------------------------------|
| Abite da lavoro ..                      | Boiler Suits ( <i>vedi</i> Overalls, etc.)                           | Bucalamiere ..                 | Stamping Machinery                        | Dinamo ..                               | Dynamos ( <i>vedi</i> Electric Lighting Plant)                             |
| Accensione elettrica (Organi d')        | Igniters (Electric)                                                  | Burette per olio ..            | Oil-cans                                  | Dinamometri ..                          | Dynamometers                                                               |
| Accessori delle caldaie e boiler        | Boiler Mountings and Scientific Instruments                          | Calcolati idraulici            | Hydraulic Rams                            | Dischi di smeriglio ..                  | Emery Wheels                                                               |
| Apparecchi di misura                    | Engine and Boiler-fittings                                           | Caldaie (Autoclavi delle)      | Manhole Doors                             | Disegni: lucidi, etc. ..                | Drawings, Tracings, etc.                                                   |
| Accessori delle macchine e caldaie      | Steel Makers                                                         | Caldaie a vapore ..            | Boilers (Steam)                           | Disinfettanti ..                        | Disinfectants                                                              |
| Acciaierie ..                           | Steel Works                                                          | Caloriferi ..                  | Heating Apparatus                         | Disintegratori ..                       | Disintegrators                                                             |
| Acciaierie e Fonderie (Impianto delle)  | Steel and Iron Works (Plant for) ( <i>vedi</i> Iron and Steel Works) | Cami ..                        | Chimneys                                  | Distillatori ..                         | Distillery Plant                                                           |
| Acciaio manganese                       | Manganese Steel Castings and Forgings                                | Campanelle e segnali elettrici | Campanes and Signals                      | Ebanite ..                              | Ebonite                                                                    |
| (Getti fusi e fucinati)                 | ings and Forgings                                                    | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Economizzatori ..                       | Economisers                                                                |
| Acciaio per utensili.                   | Steel (Tool, Special and High-speed)                                 | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Edifici e tettoie di ferro e acciaio .. | Iron and Steel Buildings                                                   |
| Acciaio e metallo stampato (Pezzi di)   | Work                                                                 | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Editori ..                              | Editors                                                                    |
| Accoppiamenti degli alberi              | Couplings (Shaft)                                                    | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Elettori di cenere ..                   | Asbo-j cots                                                                |
| Accoppiamenti per vagoni                | Couplings (Railway)                                                  | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Elevatori di grano, carboni, etc. ..    | Elevators (Grain, Coal, etc.)                                              |
| Accumulatori elettrici                  | Accumulators (Electric)                                              | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Eliche ..                               | Propellers                                                                 |
| Aeratori: esauritori ..                 | Exhausters                                                           | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Eliche e ale d'eliche ..                | Screw Propellers and Propeller Blades                                      |
| Aeroplani ..                            | Aeroplanes                                                           | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Elmi parafulmo per pompieri ..          | Smoke Helmets                                                              |
| Agenti di brevetti ..                   | Patent Agents                                                        | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Esauritori per gas ..                   | Gas Exhausters                                                             |
| Agenti di assicurazione                 | Insurance Companies                                                  | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Essicatori a forza centrifuga ..        | Centrifugal Drying Machines                                                |
| Aggiustamento meccanico (Lavori d')     | Machining for Trade.                                                 | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Estrattori d'olio ..                    | Oil Extractors                                                             |
| Alberi a gomito ..                      | Cranks                                                               | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Evaporatori ..                          | Evaporators                                                                |
| Alimentatori automatici                 | Automatic Feeders                                                    | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Evaporatori-distillatori                | Distilling (Water) Apparatus                                               |
| Aluminio e prodotti d'alluminio         | Aluminium and Products of Aluminium                                  | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Fabbricanti ..                          | Manufacturers ( <i>vedi</i> Patent Law)                                    |
| Amianto (Articoli d')                   | Asbestos Goods, Fittings, etc.                                       | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Fabbricazione del gas (Impianti per la) | Gasworks (Plant for)                                                       |
| Ancore ..                               | Anchor                                                               | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferro galvanizzato ..                   | Galvanised Ironwork                                                        |
| Apparecchi a getto di sabbia per pulire | Sand Blast Machines                                                  | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferroie a dentiera ..                   | Railways (Rack)                                                            |
| Apparecchi da palombari                 | Diving Apparatus                                                     | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferroie e contraenti (Impianti per)     | Railway and Contractors' Plant                                             |
| Apparecchi d'alaggio ..                 | Haulage Plants                                                       | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferrovie (Materiale fisso per)          | Permanent Way                                                              |
| Apparecchi d'avviamento dei motori      | Motor Starters and Accessories                                       | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferrovie (Materiale mobile per)         | Railway Rolling Stock ( <i>vedi</i> Carriage, Wagon and Engine—Locomotive) |
| Apparecchi accessori                    | Accessories                                                          | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferrovie portatili ..                   | Portable Railways ( <i>vedi</i> Railways, Portable)                        |
| Apparecchi d'essiccamento               | Drying Apparatus                                                     | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Ferrovie portatili binari               | Railways (Light and Portable)                                              |
| Apparecchi d'imbianchire e pitturare    | Whitewashing and Painting Machines                                   | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances | Filanda e tessitura (Macchine da)       | Textile Machinery                                                          |



|                                                     |                                                             |                                       |                                                                 |                             |                                                            |
|-----------------------------------------------------|-------------------------------------------------------------|---------------------------------------|-----------------------------------------------------------------|-----------------------------|------------------------------------------------------------|
| Apparecchi di cambio di moto per barche automobili  | Reversing Gears (Motor Boat)                                | Cilindri per la costruzione dei ponti | Bridge Foundry                                                  | Fillettatrici e taglia-tubi | Pipe Screwing and Cutting Machinery                        |
| Apparecchi d'illuminazione                          | Lighting Apparatus (vedi Electric Lighting and Power Plant) | Cilindri per laminatoi                | Rolls (Chilled and Grain)                                       | Fillettatrici: macchine     | Screwing Machinery                                         |
| Apparecchi di sicurezza                             | Safety Apparatus                                            | Cinghie .....                         | Belt (Leather, Canvas, etc.)                                    | Fili e cavi telegrafici     | Telegraph Wire and Cable                                   |
| Apparecchi di sollevamento                          | Hoisting Machinery (vedi Hoist Cranes)                      | Circulatori d'acqua                   | per Hydrolifters and Temperature Equalizers (vedi Hoist Cranes) | Fili e corde metalliche ..  | Wire and Wire Ropes                                        |
| Apparecchi di trafilatura                           | Draw Benches                                                | Collettori di polvere ..              | Dust Collectors (Mills, Factories, Breweries, etc.)             | Fili (Macchine per tessere) | Wire Weaving, Straightening, Cutting and Coiling Machinery |
| Apparecchi per controllo del filo, etc.             | Time-Checking Machines                                      | Colori, vernici etc.                  | Paints, Varnishes, etc.                                         | Filtri .....                | Filtering Apparatus                                        |
| Apparecchi per purificazione delle acque            | Water-purifying Apparatus                                   | Compositi liquidi ..                  | Liquid Fuel, Oil Fuel                                           | Filtri per aria ..          | Feed-water Filters                                         |
| Apparecchi per estinguere incendi                   | Fire-extinguishing Apparatus                                | Composizione per scorie               | Insulating Materials                                            | Filtri per olio ..          | Oil Filters                                                |
| Apparecchi per misurare la torsione                 | Torsion Meters                                              | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Apparecchi per scaricare i forni a coke             | Coke Rams                                                   | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Apparecchi per scaricare le fognie                  | Cesspool Exhausters                                         | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Apparecchi per tiraggio forzato e indotto           | Forced and Induced Draught Apparatus                        | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Arbitri ..                                          | Arbiters                                                    | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Argani ..                                           | Windlasses                                                  | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Argani a vapore, idraulici elettrici e montacarichi | Capstans (Steam, Hydraulic and Electric)                    | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Aspiratori di polveri ..                            | Vacuum Dust Plant                                           | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Assi ..                                             | Shafts                                                      | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Assi a gonfio ..                                    | Crank Axles                                                 | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Assicurazione per le caldaie (Compagnie d')         | Boiler Insurance Companies                                  | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Attuali di compensi                                 | Drawing Instruments                                         | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Autocavi per i passi d'uomo nelle caldaie           | Boiler Manholes                                             | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Automobili ..                                       | Motor Cars (vedi Motor Vehicles)                            | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Barche e canotti ..                                 | Boats                                                       | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Barili ..                                           | Drums (vedi Tanks and Drums)                                | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Barili (Macchine per farle)                         | Cask-making Machinery                                       | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Barre (Acciaio e Ferro)                             | Bars (Steel and Iron)                                       | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Battipalo ..                                        | Pile Drivers                                                | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Beccia a gas ..                                     | Burners (Gas)                                               | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Benzina e i suoi succedanei                         | Petrol and its Substitutes                                  | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Binaristi ..                                        | Light Railways (vedi Railways, Light and Portable)          | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Birreria (Impianti de)                              | Brewery Plant                                               | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |
| Bronzo fosforoso, etc.                              | Metals (Phosphor Alloys, etc.)                              | Compositi per scorie                  | Insulating Materials                                            | Filtri per caldaie ..       | Boiler Furnaces                                            |

| Italiano.                                                   | Inglese                                                                     | Italiano.                                           | Inglese.                                                                  | Italiano.                                                             | Inglese.                                         |
|-------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------|
| Galvanizzazione (Officine di)                               | Galvanisers                                                                 | Locomotive (Accessori di)                           | Locomotives                                                               | Molle                                                                 | .. Springs                                       |
| Gavitelli di ferro e acciaio                                | Buoys (Iron and Steel)                                                      | Lubrificante per cinghie                            | Belt Treatment                                                            | Molle elic (Machine per farle)                                        | .. Springs and Coils (Machine for Making)        |
| Gaz (ossigeno, etc.)                                        | Gas (Oxygen, etc.)                                                          | Lubrificanti per macchine utensili                  | Lubricants (cutting)                                                      | Monetare (Machine per)                                                | .. Mint Machinery                                |
| Gaz Compresso (Bottiglie e accessori del)                   | Compressed Gases (Bottles and Fittings for)                                 | Lubrificatori ..                                    | Lubricators                                                               | Morse                                                                 | .. Vices                                         |
| Gaz (Impianto per la fabbricazione del)                     | Gas Works (Plant for)                                                       | Macchine a vapore per coltivazione                  | Steam-cultivating Machines                                                | Motori ad aria calda                                                  | .. Engines (Air)                                 |
| Generatori del gaz                                          | Gas-producers                                                               | Macchine a vapore marine                            | Engines (Stationary)                                                      | Motori a benzina                                                      | .. Engines (Petrol)                              |
| Getti d'acciaio ..                                          | Castings (Steel)                                                            | Macchine da saldare                                 | Welding and Cutting                                                       | Motori a gaz ..                                                       | .. Gas Engines (vedi Engines, Gas)               |
| Getti d'alluminio ..                                        | Castings (Aluminium)                                                        | Macchine da ghiaccio                                | Ice-making Machines                                                       | Motori a petrolio                                                     | .. Engines (Oil)                                 |
| Ghisa (Getti di)                                            | Castings (Iron)                                                             | Macchine d'estrazione                               | Engines (Winding)                                                         | Motori elettrici                                                      | .. Electric Motors                               |
| Ghisa malleabile (Getti di)                                 | Castings (Malleable Iron)                                                   | Macchine di prova ..                                | Testing Machines                                                          | Munizioni                                                             | .. Ammunition                                    |
| Ghisa greggia ..                                            | Iron (Pig)                                                                  | Macchine di trazione ..                             | Engines (Traction), <i>vedi</i> <i>motore</i> Tractors (Oil, Steam, etc.) | Ole e grassi lubrificanti                                             | .. Lubricants and Oils                           |
| Giroscopi ..                                                | Gyroscopes                                                                  | Macchine e impianti di fucine                       | Forging Machines and Plant                                                | Ole materie lubrificanti                                              | .. Watches                                       |
| Giunti (Massa e materiale per)                              | Jointing Materials                                                          | Macchine e utensili agricoli                        | Agricultural Machinery                                                    | Ottoni (Fonderie e pezzi lavorati)                                    | .. Brass Founders and Brass Finishers            |
| Gomma (macchine per trattamento della)                      | Rubber Machinery                                                            | Macchine idrauliche ..                              | Hydraulic Machinery                                                       | Pale e zappe ..                                                       | .. Shovels and Spades ( <i>vedi</i> Picks, etc.) |
| Gomma elastica (Mer canzie di)                              | India-rubber Goods                                                          | Macchine per appretto dei tessuti                   | Cloth-Finishing Machinery                                                 | Pali, palancate e cappe da pali                                       | .. Piles, Sheet Steel Piling and Pile Shoes      |
| Grafite ..                                                  | Graphite (Lubricating, etc.)                                                | Macchine per la fabbricazione delle chiodi          | Coaming Machinery                                                         | Pali, Sostegni ..                                                     | .. Poles, Posts and Standards                    |
| Grue a cavalletto ..                                        | Cranes, Travellers, Winches, etc.                                           | Macchine per coniare ..                             | Coining Machinery                                                         | Palizzate diverse                                                     | .. Fencing                                       |
| Grue ; grue scorrevoli di metallo ecc.                      | Furniture and Fittings (Metals, etc.)                                       | Macchine per formare varde e dei dadi               | Bolt and Nut-making Machinery                                             | Paraurti ; tamponi                                                    | .. Buffers                                       |
| Guarniture e accessori, di metallo ecc.                     | Packing, Engine and Hydraulic ( <i>vedi</i> <i>motore</i> Metallic Packing) | Macchine per rompere scogli sott'acqua              | Moulding Machines (Mechanical under Water)                                | Paralumi ..                                                           | .. Lightning Conductors                          |
| Guarnizioni ; giunture                                      | Hydraulic ( <i>vedi</i> <i>motore</i> Leathers - Hydraulic, etc.)           | Macchine per la lavorazione del legno               | Wood-working Machinery                                                    | Paranchi ..                                                           | .. Pulley-Blocks                                 |
| Guarnizioni metalliche                                      | Metallic Packing                                                            | Macchine per miniere                                | Mining Machinery                                                          | Patenti - Legge Inglese sulle-Ditte pronte per fabbricare gli oggetti | .. Patent Law (Manufacturers under)              |
| Guarnizioni di cuoio ..                                     | Leathers                                                                    | Macchine per il trattamento delle foglie di metallo | Gold-crushing and Amalgamating Machinery                                  | Petrol (Magazzinaggio)                                                | .. Rock Drills                                   |
| Idranti ..                                                  | Hydrants                                                                    | Macchine per scalare e modellare                    | Slotting and Shaping Machines ( <i>vedi</i> Machine Tools)                | Petrollo                                                              | .. Survivors, etc.                               |
| Idro-estrattori ..                                          | Hydro-extractors                                                            | Macchine per tagliare ingranaggi                    | Wheel-cutting Machinery                                                   | Pezzi fucinati (bronzo)                                               | .. Forgings (Bronze, Steel)                      |
| Illuminazione elettrica (Impianti di)                       | Electric Lighting Plant                                                     | Macchine refrigeranti ..                            | Refrigerating Machinery                                                   | Pezzi fucinati (ferro e acciaio)                                      | .. Forgings (Iron and Steel)                     |
| Impianti e apparecchi sanitari                              | Sanitary Appliances                                                         | Macchine soffianti ..                               | Engines (Blowing)                                                         | Pezzi stampati (bronzo)                                               | .. Stampings (Bronze, Brass, Copper, etc.)       |
| Impianti per zuccherifici                                   | Sugar Machinery                                                             | Macchine utensili diversi                           | Machine tools                                                             | Piallatrici ..                                                        | .. Planing Machines ( <i>vedi</i> Machine Tools) |
| Inchiodi ..                                                 | Nails                                                                       | Macchine utensili per la costruzione dei cannoni    | Gun-making Machinery                                                      | Piastre di corazzatura ..                                             | .. Armour-plates                                 |
| Incrostazione nelle caldare (Apparecchi per rimuovere la)   | Boiler Scaling Appliances                                                   | Macchine per tagliare ingranaggi                    | Wheel-cutting Machinery                                                   | Plattforme ..                                                         | .. Turntables                                    |
| Incrostazione nelle caldare (Composizione per prevenire la) | Disincrustants                                                              | Macchine refrigeranti ..                            | Refrigerating Machinery                                                   | Platte di carico ..                                                   | .. Lighters ( <i>vedi</i> Barges)                |
| Indicatori del vuoto e di pressione idraulica               | Vacuum and Hydraulic                                                        | Macchine utensili diversi                           | Machine tools                                                             | Pignoni di cuoio ..                                                   | .. Rawhide ( <i>vedi</i> Wheels, Rawhide)        |
|                                                             |                                                                             |                                                     |                                                                           | Piometri e termometri                                                 | .. Pyrometers and thermometers                   |
|                                                             |                                                                             |                                                     |                                                                           | Polvere e fulminobone                                                 | .. Gunpowder and Gun-bricre                      |
|                                                             |                                                                             |                                                     |                                                                           | Polvere per fabbricare                                                | .. Machine for fabricating                       |
|                                                             |                                                                             |                                                     |                                                                           | Polverizzare (Macchine per)                                           | .. Pulverisers                                   |
|                                                             |                                                                             |                                                     |                                                                           | Pompe centrifughe                                                     | .. Pumps (Centrifugal)                           |

|                                                |                           |                                                 |                                         |
|------------------------------------------------|---------------------------|-------------------------------------------------|-----------------------------------------|
| Ingegneri consulenti, Engineers (Consulting)   | Magli a vapore, ..        | .. Hammers (Steam) ( <i>vedi</i> Steam Hammers) | Pompe d'alimentazione, Pumps (Donkey)   |
| Ingegneri d'ispezione and Inspecting)          | Magli meccanici           | .. Steam Hammers                                | .. Pumps (Air) ( <i>vedi</i> Air Pumps) |
| Ingegneri elettricisti .. Electrical Engineers | Magneti ..                | .. Magnets                                      | .. Pumps (Vacuum)                       |
| Ingegneri meccanici .. Mechanical Engineers    | Magnete di sospensione .. | .. Magnets (Lifting)                            | .. Pumps and Pumping                    |
| consulenti .. (Consulting)                     | Manichette ..             | .. Hose Pipes                                   | .. Machinery                            |
| Ingranaggi a vite per .. Worm Gearing          | Manometri ..              | .. Gauges (Pressure)                            | .. Engines (Pumping)                    |
| petra ..                                       | Manovelle da vapore ..    | .. Winches (Steam)                              | .. Pumps (Colonial)                     |
| Ingranaggi di cuoio ..                         | Materassi e materiale ..  | .. Cranes                                       | .. Pumps (Turbine)                      |
| .. Injectors                                   | isolante per caldaie ..   | .. Composition for Cover-                       | .. Bridges ( <i>vedi</i> Structural     |
| .. Clutches (Friction)                         | ..                        | .. ing Boilers, etc. ( <i>vedi</i> ..           | .. Engineering)                         |
| .. Dust-shields for Bear-                      | ..                        | .. Non-conducting Com-                          | .. Doors (Watertight)                   |
| .. Invenzione per protegg-                     | ..                        | .. position)                                    | .. per Well Engineers                   |
| .. gere sopporti contro ..                     | ..                        | .. Drop Forgings ( <i>vedi</i> ..               | .. Pozzi (Ingegneria                    |
| .. la sabbia ..                                | ..                        | .. Forgings, Drop Com-                          | .. lo studio del)                       |
| .. Isolanti per caldaie ..                     | ..                        | .. Non-conducting Com-                          | .. Pozzi tubolari ..                    |
| .. positions)                                  | ..                        | .. position                                     | .. Presse a foggare ..                  |
| .. Boiler Coverings ( <i>vedi</i> ..           | ..                        | .. Refractory Materials                         | .. Presse per cotone ..                 |
| .. Non-conducting Com-                         | ..                        | .. Pencils ( <i>vedi</i> Drawing                | .. Presse idrauliche ..                 |
| .. positions)                                  | ..                        | .. Instruments)                                 | .. Presse meccaniche ..                 |
| .. Boiler Inspection So-                       | ..                        | .. Briquette (Machinery)                        | .. Prodotti chimici (Im-                |
| cietà d') ..                                   | ..                        | .. Fire Bricks ( <i>vedi</i> Re-                | .. pianti per la fabbri-                |
| .. Astronomical Instru-                        | ..                        | .. fractory Materials)                          | .. cazione del)                         |
| .. ments ( <i>vedi</i> Instru-                 | ..                        | .. Brick and Tile-making                        | .. Proiettori ..                        |
| .. Sheet Metal work ..                         | ..                        | .. Machinery                                    | .. Pulegge di ghisa ..                  |
| .. (Welded)                                    | ..                        | .. Picks, Shovels, and                          | .. Pulegge di legno ..                  |
| .. Lamiere convesse ed a ..                    | ..                        | .. Spades                                       | .. Pulegge in ferro e                   |
| .. flange) ..                                  | ..                        | .. Valve Gear                                   | .. acciaio                              |
| .. Lamiere di ferro ed ..                      | ..                        | .. Drills (Twist)                               | .. Puntras etc. (Machine                |
| .. acciaio ..                                  | ..                        | .. Merchants (Machinery,                        | .. per farle ..                         |
| .. Lamiere sottili (Pezzi di ..                | ..                        | .. etc.)                                        | .. Punzonatrici e cesoie                |
| .. Metal-work and ..                           | ..                        | .. Iron Merchants                               | .. Punching and Shearing                |
| .. Machinery (Steel)                           | ..                        | .. Concrete Mixers                              | .. Machines                             |
| .. Stampings (Iron and ..                      | ..                        | .. Metals (Alloy Steels)                        | .. Quadri e apparecchi di               |
| .. Perforated Metals                           | ..                        | .. Metals (Antifiction)                         | .. distribuzione                        |
| .. Lamiere stirate (Métal ..                   | ..                        | .. Mica Merchants                               | .. Raffreddamento ad ac-                |
| déployé)                                       | ..                        | .. Measuring Machines                           | .. qua (Torri e apparc-                 |
| .. Laminatoi (Impianti di ..                   | ..                        | .. Colliery Plant                               | .. chi per il)                          |
| .. Rolling-mill Machinery ..                   | ..                        | .. Model Makers                                 | .. Rame in lingotti, verghe             |
| .. (vedi Iron and Steel ..                     | ..                        | .. Grindstones                                  | .. e lastre ..                          |
| .. Works, Plant for)                           | ..                        | .. Flour                                        | .. Rame ..                              |
| .. Lamps ( <i>vedi</i> Incandescent ..         | ..                        | .. Flour, Corn and Rice)                        | .. Copper-smiths                        |
| .. Electric Lighting Plant)                    | ..                        | .. Grinding Machinery                           | .. Copper-smiths                        |
| .. Incandescent Lamps                          | ..                        | .. (Pa-                                         | .. Governors (Engine)                   |
| .. Lampade ad incandes-                        | ..                        | .. Mills (Paint, Oil, Mortar,                   | .. Regolatori delle mac-                |
| .. cenza ..                                    | ..                        | .. oil, etc.)                                   | .. chine                                |
| .. Lana di legno (Mac-                         | ..                        | .. Molini da macinare                           | .. Riduzione di velocità                |
| .. chine per fare la)                          | ..                        | .. Molini meccanici (Fa-                        | .. (Organi di)                          |
| .. Lavanderie (Impianti di ..                  | ..                        | .. rina grano, riso)                            | .. Rinnalzatori ..                      |
| .. Leghe ..                                    | ..                        | .. Molini per color, oli,                       | .. Rinnalzatori ..                      |
| .. Legno (Processi d'essic-                    | ..                        | .. mortero, etc.)                               | .. d'alimentazione                      |
| .. catoio e di conserva-                       | ..                        | ..                                              | .. Riso (Impianti per sgu-              |
| .. zione) ..                                   | ..                        | ..                                              | .. scare e lavare il)                   |
| .. Legno di costruzione ..                     | ..                        | ..                                              | .. Rivestimenti del tubo                |
| .. Leve per alzare rotaje ..                   | ..                        | ..                                              | .. Robineti (Valvole da                 |
| .. Line ..                                     | ..                        | ..                                              | .. Cocks ( <i>vedi</i> Valves, Gas,     |
| .. Livellazione (Strumenti ..                  | ..                        | ..                                              | .. Steam, Water, etc.)                  |
| .. ing)                                        | ..                        | ..                                              | .. Steam Traps                          |
| .. Locomobili ..                               | ..                        | ..                                              | .. Steam Breakers ( <i>vedi</i> Dis-    |
| .. Locomotive ..                               | ..                        | ..                                              | .. integrators)                         |



# PUBLICATIONS

## OF THE

### ENGINEERING STANDARDS COMMITTEE.

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### PRICE LIST REVISED, JULY, 1917.

*(This cancels all previous lists.)*

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# "ENGINEERING" DIRECTORY.

—◆—  
No. 67.—MAY, 1920.  
—◆—

COMPILED AND CLASSIFIED  
FROM THE  
CURRENT ADVERTISEMENTS  
IN  
"ENGINEERING;"  
TOGETHER WITH THE  
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS  
OF THE ADVERTISERS,  
ALSO  
GLOSSARIES FOR THE USE OF FOREIGN BUYERS.

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Offices:
"ENGINEERING," LIMITED,
35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.2.

[ENTERED AT STATIONERS' HALL.]

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every year throughout the World.

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Full information as to the various articles comprised in this Directory will be found in the Advertisement Columns of "ENGINEERING." On page 5 of the Advertisement Sheets in each week's issue is an Alphabetical Index of the Advertisements in that particular number.

This Directory contains, amongst other matters, the Registered Telegraphic Address, Key to same, Telegraph Codes in use by Advertisers and their Telephone Numbers.

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The Directory may be obtained gratis on application to the Publisher of

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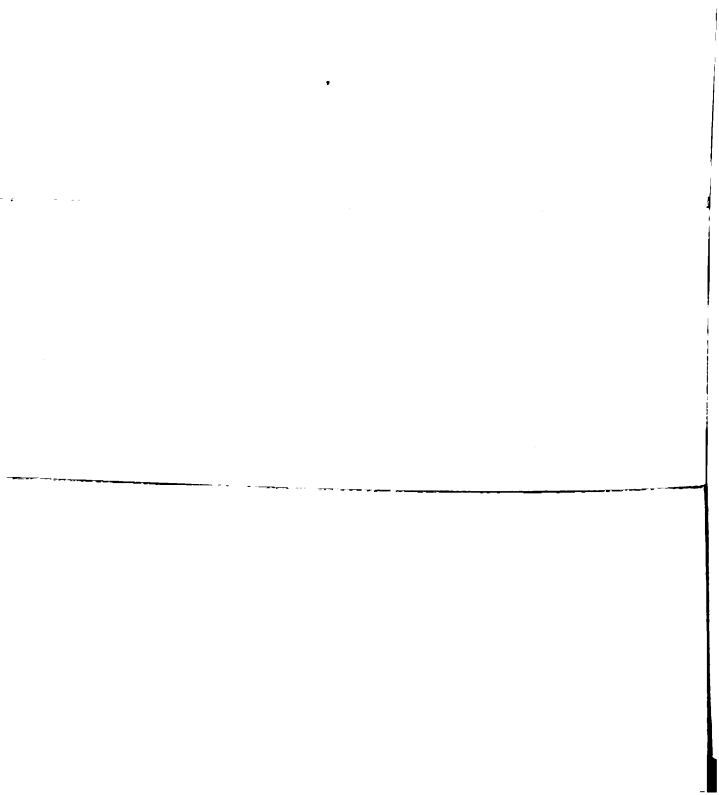
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"ENGINEERING" DIRECTORY.

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No. 67.—MAY, 1920.  
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For the use and assistance of our many foreign friends there will be found on the following pages GLOSSARIES in FRENCH (page 99), SPANISH (page 104), and ITALIAN (page 109), of the HEADINGS under which the articles advertised in "ENGINEERING" are Classified in this Directory.

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Dans le but de faciliter les recherches à nos nombreux lecteurs de l'Etranger, nous donnons la TRADUCTION en FRANÇAIS (page 99), ESPAGNOL (page 104), et ITALIEN (page 109), des EN-TÊTE sous lesquels sont classées dans la présente brochure, les annonces publiées dans "ENGINEERING."

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Para servicio de nuestros numerosos lectores en los varios paises, damos una TRADUCCIÓN en FRANCES (página 99), ESPAÑOL (página 104), é ITALIANO (página 109), de los TITULOS con que estan clasificados en este libreo los anuncios que publica "ENGINEERING."

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Onde facilitare la ricerca ai nostri lettori stranieri, abbiamo aggiunto a questo opuscolo la TRADUZIONE FRANCESE (página 99), SPAGNUOLA (página 104), E ITALIANA (página 109), dei NOMI DEGLI ARTICOLI sotto i quali sono classificati gli annunzi pubblicati nel "ENGINEERING."



The Publisher would esteem it a favour if persons using this Directory would make reference thereto in their Correspondence with Manufacturers.

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OF

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#### Acroplanes, Seaplanes.

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Vickers Limited . . . . . Vickers House, Broad-  
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S.W.  
White J. Samuel, & Co., Ltd. . . . . East Cowes, Isle of Wight

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Clayton & Shuttleworth, Ltd. . . . . Lincoln  
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Marshall, Sons & Co., Ltd. . . . . Gainsborough  
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Allen W. H. Sons, & Co., Ltd. . . . . Bedford  
Alley & Maclellan, Ltd. . . . . Sentinel Works, Glasgow  
Anderson Foundry Co., Ltd. . . . . 100, Cheapside St., Glas-  
gow  
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Belliss & Morcom, Ltd. . . . . Birmingham  
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ing Co., Ltd. . . . . 1, Victoria St., S.W.1  
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Premier Cooler & Engineer-  
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Seagers, Ltd. . . . . Dartford, Kent  
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Tilghman's Patent Sand } Broadheath, near Man-  
Blast Co., Ltd. . . . } chester  
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Wigan  
Westinghouse Brake Co., Ltd. . . . . York Rd., King's Cross,  
N.  
Worthington-Simpson, Ltd. . . . . Queen's House, Kings-  
way, W.C. 2

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Ltd. . . . . Bradford  
Dawson & Downie, Ltd. . . . . Clydebank  
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ton  
General Electric Co., Ltd. . . . . 67, Queen Victoria St.,  
E.C.4  
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turing Co., Ltd. . . . . Wolverhampton, Eng.  
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Vosper & Co., Ltd. .. Broad St., Portsmouth  
Weri Conrad .. .. Haarlem, Holland  
White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight

**Barrows.**

Ash, Joseph & Son .. Rea St. South, Birmingham  
Pollock, Macnab & Highgate Shettleston, Glasgow

**Bars (Bright Steel).**

British Rolling Mills, Ltd. Cliveland St., Birmingham

Dunkerley C. C. & Co., Ltd. .. ..

Govan Shafting & Engineering Co., Ltd. .. Store St., Manchester

Halesowen Steel Co., Ltd. .. .. Govan, Glasgow

Hampton & Dean .. .. Halesowen, nr. Birmingham

Lee Arthur, & Sons, Ltd. Clifton Works, Wednesbury  
Talbot Stead Tube Co., Ltd. Sheffield  
Wesson W., & Co., Ltd. Birchills, Walsall  
Winn, W. Martin, & Co. .. Moxley, Wednesbury

Station Works, Darlaston

**Bars (Steel and Iron).**

Adams & Benson, Ltd. .. Albion, West Bromwich  
American Steel Export Co. Woolworth Building, New York, U.S.A.

Beardmore Wm., & Co., Ltd. Glasgow  
Bessemer Henry, & Co., Ltd. Sheffield  
British Rolling Mills, Ltd. Cliveland St., Birmingham

Briton Ferry Steel Co., Ltd. .. .. Briton Ferry, South Wales.

Brown Bayley's Steel Works, Ltd. .. .. Sheffield

Butterley Co., Ltd. Derby

Columbia Steel & Engineering Co., Ltd. .. Bank Chambers, 329, High Holborn, W.C. 1

Colville David, & Sons, Ltd. Motherwell, near Glasgow  
Darwin & Milner, Ltd. .. Sheffield

Dunkerley C. C., & Co., Ltd. .. Store St., Manchester.

Dunlop & Ranken, Ltd. .. 47, Water Lane, Leeds

Fairley James, & Sons, Ltd. .. .. Birmingham & Sheffield.

Glasgow Iron & Steel Co., Ltd. Wishaw

Govan Shafting & Engineering Co., Ltd. .. Govan, Glasgow

Hadfields Limited .. .. Hecla Works, Sheffield

Halesowen Steel Co., Ltd. Halesowen, nr. Birmingham

Lee Arthur, & Sons, Ltd. .. Sheffield

Leeds Forge Co., Ltd. .. Leeds

Partington Steel & Iron Co., Ltd. .. .. Irlam, Manchester

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow

Stringer Brothers .. .. West Bromwich

Stringer & Co. (Sheffield), Ltd. .. Sheffield

Talbot Stead Tube Co., Ltd. Birchills, Walsall

Wesson W., & Co., Ltd. .. Moxley, Wednesbury

Winn, W. Martin, & Co. .. Station Works, Darlaston

**Bearings (Ball and Roller).—(See also Plummer Blocks.)**

|                                           |    |                                  |
|-------------------------------------------|----|----------------------------------|
| Broom & Wade, Ltd.                        | .. | High Wycombe                     |
| Crofts (Engineers), Ltd.                  | .. | Empire Works, Bradford           |
| Electric & Ordnance Accessories Co., Ltd. | .. | Aston, Birmingham                |
| Empire Roller Bearings Co., Ltd.          | .. | 13, Victoria St., S.W.1          |
| Hoffmann Manufacturing Co., Ltd.          | .. | Chelmsford                       |
| Hyatt, Ltd.                               | .. | 24, Devonshire St., W.C.1        |
| Northern Ball Bearings, Ltd.              | .. | 115, Great Portland St., W.1     |
| Ransome A., & Co., Ltd.                   | .. | Stanley Works, Newark-on-Trent   |
| Rudge-Whitworth, Ltd.                     | .. | Sparkhill, Birmingham            |
| Skefko Ball Bearing Co., Ltd.             | .. | Skefko Works, Luton, Beds.       |
| Watson Stanley J.                         | .. | 37, Sheen Rd., Richmond, S.W. 14 |

**Bearings (Thrust and Footstep).**

|                          |    |                                 |
|--------------------------|----|---------------------------------|
| Broom & Wade, Ltd.       | .. | High Wycombe                    |
| Crofts (Engineers), Ltd. | .. | Empire Works, Bradford          |
| Vickers Ltd.             | .. | Vickers House, Broadway, S.W. 1 |

**Belt Fasteners.**

|                                      |    |                              |
|--------------------------------------|----|------------------------------|
| Nicholson W. T., & Clipper Co., Ltd. | .. | Salford, Manchester          |
| Stone J. B., & Co., Ltd.             | .. | 135, Finsbury Pavement, E.C. |
| Thomas & Bishop                      | .. | 37, Tabernacle St., E.C.     |

**Belt Treatment.**

|                 |    |                          |
|-----------------|----|--------------------------|
| Thomas & Bishop | .. | 37, Tabernacle St., E.C. |
|-----------------|----|--------------------------|

**Beltting (Leather, Canvas, &c.).**

|                                                       |    |                               |
|-------------------------------------------------------|----|-------------------------------|
| Balderston & Co., Ltd.                                | .. | 201, St. Vincent St., Glasgow |
| Cole Henry A., & Co., Ltd.                            | .. | Coronet Works, Liverpool      |
| Cooke E. J.                                           | .. | Blackfriars, Manchester       |
| Dawson James & Son, Ltd.                              | .. | Lincoln                       |
| Gutta Percha & Rubber, Ltd.                           | .. | Toronto, Canada               |
| Hendry James                                          | .. | Bridgeton, Glasgow            |
| India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. | .. | Silvertown, B.                |
| Jardine J.                                            | .. | Deering St., Notting-ham      |
| Lewis & Tylor, Ltd.                                   | .. | Cardiff, England              |
| Ormond John, & Sons, Ltd.                             | .. | 38-39, Parliament St., W.     |
| Reddaway F., & Co., Ltd.                              | .. | (Camel Brand)                 |
| Tullis John, & Son, Ltd.                              | .. | Glasgow                       |
| Vickers F. E.                                         | .. | Robertson St., Glasgow        |
| Walker Wm., & Sons, Ltd.                              | .. | Bolton, Lancs.                |
| Webb & Son (Combs.), Ltd.                             | .. | Stowmarket                    |
| Willcox W. H., & Co., Ltd.                            | .. | 32-38, Southwark St., S.E.    |

**Beaching Machinery.**

|                        |    |                            |
|------------------------|----|----------------------------|
| Edmeston A., & Sons    | .. | Patricroft, nr. Manchester |
| Entwistle & Gass, Ltd. | .. | Bolton                     |

**Blowers.—(See Engines—Blowing, Fans and Blowers, and Ventilators.)****Boats.—(See Barges, &c., Motor Boats, and Ship-builders.)****Boiler Circulators.****Boiler Compositions.—(See Disincrustants.)****Boiler Coverings.—(See Non-conducting Compositions.)****Boiler Furnaces.**

|                                    |    |                         |
|------------------------------------|----|-------------------------|
| Bennis Ed., & Co., Ltd.            | .. | Bolton                  |
| Brown John, & Co., Ltd.            | .. | Sheffield               |
| Donkin Co., Ltd. (The Bryan)       | .. | Chesterfield            |
| Dowson & Mason Gas Plant Co., Ltd. | .. | Levenshulme, Manchester |
| Leeds Forge Co., Ltd.              | .. | Leeds                   |

**Boiler Inspection and Insurance Societies.**

|                                               |    |                                  |
|-----------------------------------------------|----|----------------------------------|
| British Oak Insurance Co., Ltd.               | .. | Coleman St. House, E.C. 3        |
| London & Lancashire Fire Insurance Co., Ltd.  | .. | 155, Leadenhall St., E.C.        |
| Manchester Steam Users' Association           | .. | 9, Mount St., Manchester         |
| National Boiler & General Insurance Co., Ltd. | .. | St. Mary's Parsonage, Manchester |

**Boiler Manholes.**

|                            |    |                        |
|----------------------------|----|------------------------|
| King David, & Sons, Ltd.   | .. | Possil Park, Glasgow   |
| Leeds Forge Co., Ltd.      | .. | Leeds                  |
| M'Neil C., Ltd.            | .. | Glasgow                |
| Piggott Thos., & Co., Ltd. | .. | Springhill, Birmingham |

**Boiler Mountings.**

|                                               |    |                                  |
|-----------------------------------------------|----|----------------------------------|
| Bailey Sir W.H., & Co., Ltd.                  | .. | Salford, Manchester              |
| Bell's United Asbestos Co., Ltd.              | .. | 59½ Southwark St., S.E.          |
| Billington & Newton, Ltd.                     | .. | Longport, Staffordshire          |
| Birkett T. M., & Sons, Ltd.                   | .. | Hanley, Staffordshire            |
| Blakeborough J., & Sons, Ltd.                 | .. | Brighouse, Yorks                 |
| Brundrit Joseph                               | .. | 14, Water St., Liverpool         |
| Cockburns Limited                             | .. | Cardonald, Glasgow               |
| Crosby Valve & Engineering Co., Ltd.          | .. | 147, Queen Victoria St., E.C.    |
| France & Morgan                               | .. | Govan, Glasgow                   |
| Green & Boulding, Ltd.                        | .. | 28, New Bridge St., E.C.         |
| Hopkinson J., & Co., Ltd.                     | .. | Huddersfield                     |
| Howden James, & Co., Ltd.                     | .. | Scotland St., Glasgow            |
| Lunken Company, Ltd.                          | .. | 35, Great Dover St., S.E.        |
| National Boiler & General Insurance Co., Ltd. | .. | St. Mary's Parsonage, Manchester |
| Piggott Thos., & Co., Ltd.                    | .. | Springhill, Birmingham           |
| Royles Limited                                | .. | Irlam, near Manchester           |
| Russell John, & Co., Ltd.                     | .. | Birmingham                       |
| Smith Sydney, & Sons (Nottingham), Ltd.       | .. | Nottingham                       |
| Thornycroft J. I., & Co., Ltd.                | .. | Southampton                      |
| Turnbull Alex., & Co., Ltd.                   | .. | Bishopbriggs, Glasgow            |

**Boiler Plates.—(See Plates, Iron & Steel.)****Boiler Sealing Appliances.**

|               |    |                                 |
|---------------|----|---------------------------------|
| Gilman, Frank | .. | 67, Lightwoods Hill, Birmingham |
|---------------|----|---------------------------------|

**Boiler Suits.—(See Overalls, &c.)****Boilers (Steam).—(See also Boilers—Water-tube.)**

|                             |    |                                      |
|-----------------------------|----|--------------------------------------|
| Abbott & Co. (Newark), Ltd. | .. | Newark-on-Trent                      |
| Adamson Daniel, & Co., Ltd. | .. | Dukinfield                           |
| American Steel Export Co.   | .. | Woolworth Building, New York, U.S.A. |
| Bellamy John, Ltd.          | .. | Millwall, B.                         |
| Bodley Bros. & Co.          | .. | Bxeter                               |

**Boilers (Steam).—Continued.**

Burmeister & Wain, Ltd.  
 Chaplin, Alex., & Co.  
 Clarke, Chapman & Co., Ltd.  
 Clayton Son & Co., Ltd..  
 Cochran & Co., Annan, Ltd.  
 Coltham H., & Sons  
 Coltham Walter W., & Co., Ltd.  
 Cradley Boiler Co., Ltd..  
 Craig A. F., & Co., Ltd..  
 Dalglish A. & W..  
 Danks H. & T. (Netherton), Ltd.  
 Davey, Paxman & Co., Ltd.  
 Davy Brothers, Ltd..  
 Davy Summers & Co., Ltd.  
 Escher Wyss & Co.  
 Farrar Boiler Works, Ltd..  
 Forth Shipbuilding & Engineering Co., Ltd..  
 Fowler J., & Co. (Leeds) Ltd.  
 Galloways Ltd..  
 Garrett R., & Sons, Ltd..  
 Grantham Boiler & Crank Co., Ltd..  
 Hawthorn R. & W., Leslie & Co., Ltd..  
 Hayes Edward ..  
 Hindley B. S., & Sons ..  
 Holdsworth & Sons, Ltd..  
 Hudson Thomas, Ltd..  
 McKie & Baxter ..  
 Manlove, Allott & Co., Ltd..  
 Marshall, Sons & Co., Ltd..  
 Merryweather & Sons, Ltd..  
 Mumford A. G., Ltd..  
 North-Eastern Marine Engineering Co., Ltd..  
 Penman & Co., Ltd..  
 Piggott Thos., & Co., Ltd..  
 Plenty & Sons, Ltd..  
 Ransomes, Sims & Jefferies, Ltd..  
 Robey & Co., Ltd..  
 Ross & Duncan ..  
 Rowan David, & Co..  
 Ruston & Hornsby, Ltd..  
 Smulders A. F..  
 Spencer W. H., & Co..  
 Sulzer Bros..  
 Sun Shipbuilding Co..  
 Tanges Limited ..  
 Thompson John, Ltd..  
 Thornycroft J. I., & Co., Ltd..  
 Tinker, Shenton & Co., Ltd..  
 Vickers, Ltd..  
 Vosper & Co., Ltd..  
 Wallsend Slipway & Engineering Co., Ltd..  
 White J. Samuel, & Co., Ltd..  
 Wilson William, & Co..  
 Yarrow & Co., Ltd..  
 Yates & Thom, Ltd..  
 Copenhagen, Denmark  
 Govan, Glasgow  
 Gateshead-on-Tyne  
 Hunslet, Leeds  
 Annan, N.B.  
 Loughborough.  
 Central Boiler Works, Loughborough  
 Cradley Heath, Staffordshire.  
 Paisley  
 Pollokshaws, Glasgow  
 Netherton, Dudley  
 Colchester  
 Sheffield  
 Southampton  
 Victoria St. S.W.  
 Lincoln  
 Govan, Glasgow  
 Leeds  
 Manchester  
 Leiston Works, Suffolk  
 Grantham  
 Newcastle-on-Tyne  
 Stony Stratford, Wolverton  
 11, Queen Victoria St., E.C.  
 Leeds Road, Bradford  
 Coatbridge, N.B.  
 Govan, Glasgow  
 Nottingham  
 Gainsborough  
 61, Long Acre, W.C.  
 Colchester  
 Northumberland Works, Wallsend-on-Tyne  
 Strathclyde St., Glasgow  
 Birmingham  
 Newbury, Berks.  
 Ipswich  
 Lincoln  
 Glasgow  
 231, Elliott St., Glasgow  
 Sheaf Ironworks, Lincoln  
 Schiedam, Holland  
 Hitchin, Herts.  
 31, Bedford Sq., W.C. 1  
 1428 So. Penn Square, Philadelphia, Pa., U.S.A.  
 Birmingham  
 Wolverhampton  
 Southampton  
 Hyde, near Manchester  
 Vickers House, Broadway, S.W. 1  
 Portsmouth  
 Wallsend  
 East Cowes, Isle of Wight  
 Lilybank Boiler Works, Glasgow  
 Glasgow  
 Canal Works, Blackburn

**Boilers (Water-tube).**

British Niclausse Boiler Co., Ltd..  
 Clarke, Chapman & Co., Ltd..  
 Davey, Paxman & Co., Ltd..  
 Howden James, & Co., Ltd..  
 Hudson Thomas, Ltd..  
 Marshall, Sons & Co., Ltd..  
 Mumford A. G., Ltd..  
 Normand Augustin ..  
 Penman & Co., Ltd..  
 Richardsons, Westgarth & Co., Ltd..  
 Savery T. A. & Co., Ltd..  
 Smulders A. F..  
 Thompson John, Ltd..  
 Thornycroft J. I., & Co., Ltd..  
 Vosper & Co., Ltd..  
 White J. Samuel, & Co., Ltd..  
 Wilson William, & Co..  
 Yarrow & Co., Ltd..  
 The Clock House, Arundel St., Strand, W.C. 2  
 Gateshead-on-Tyne  
 Colchester  
 Glasgow  
 Coatbridge, N.B.  
 Gainsborough  
 Colchester  
 67, Rue du Perrey, Le Havre, France  
 Strathclyde St., Glasgow  
 Hartlepool  
 Birmingham  
 Schiedam, Holland  
 Wolverhampton  
 Southampton  
 Portsmouth  
 East Cowes, Isle of Wight  
 Lilybank Boiler Works, Glasgow [Glasgow]

**Bolt and Nut-Making Machinery.**

Platt Samuel, Ltd. .. Wednesbury

**Bolts, Rivets, Nuts, Screws, &c.—(See also Lock Nuts & Nut-Locking Appliances.)**

Adams & Benson, Ltd. .. Albion, West Bromwich  
 Armstrong, Stevens & Son, Ltd. .. Whittall St., Birmingham  
 Bayliss, Jones & Bayliss, Ltd. .. Wolverhampton  
 Beebe A. .. Wednesbury  
 Beverley Works, Ltd. .. Willow Ave., Barnes, S.W. 13  
 Grover & Co., Ltd. .. Carpenter's Rd, Stratford, E.  
 Hampton & Beebe, Ltd. .. Wednesbury, South Staffs.  
 Hampton & Dean .. Clifton Works, Wednesbury  
 Horton & Son, Ltd. .. Alma Works, Darlaston  
 Kent Geo., Ltd. .. 199, High Holborn, W.C. 1  
 Kirby Banks Screw Co., Ltd. .. Meadow Lane, Leeds  
 MacLellan P. & W., Ltd. .. Clutha Works, Glasgow  
 Marsden S. & Son, Ltd. .. London Rd., Manchester  
 Mountford Fredk., Ltd. .. Lifford, Birmingham  
 Positive Lock Washer Co. 118-122, James Watt St., Glasgow  
 Talbot-Stead Tube Co., Ltd. .. Birchills, Walsall.  
 Wiley James, & Sons, Ltd. .. Darlaston  
 Winn, W. Martin, & Co. .. Station Works, Darlaston  
 Woodside Engineering Co., Ltd. .. Possilpark, Glasgow.  
 Wyld Harry W. .. Hill Top, West Bromwich

**Boring and Sinking Tools and Machinery for Shafts and Wells—(See also Rock Drills, and Well Engineers.)**

Kearns, H. W., & Co., Ltd. .. Broadheath, nr. Manchester  
 Oil Well Supply Co. .. Dashwood House, E.C. 2.  
 Stewarts & Lloyds, Ltd. .. 41, Oswald St., Glasgow

**Bottles (Gas).—(See Gas Cylinders.)**

**Boxes.**

Southern James W. & Son, Ltd. . . . . Store St., Manchester

**Brake and Clutch Lining.**

Cresswells, Ltd. . . . . Bradford  
 Ferodo, Ltd. . . . . Sovereign Mills, Chapel-en-le-Frith

**Brakes (Railway), &c.**

Barclay Andrew, Sons & Co., Ltd. . . . . Caledonia Works, Kil-marnock  
 Birmingham Railway Carriage & Wagon Co., Ltd. . . . . Smethwick, Birmingham  
 Consolidated Brake & Engineering Co., Ltd. . . . . 15, Dean's Yard, Westminster, S.W. 1  
 Davies & Metcalfe, Ltd. . . . . Romiley, nr. Manchester  
 Elliston, Evans, & Jackson, Ltd. . . . . 13, Cross St., Finsbury, E.C.  
 Ferodo, Ltd. . . . . Chapel-en-le-Frith  
 Vacuum Brake Co., Ltd. . . . . 32, Qn. Victoria St., E.C.  
 Westinghouse Brake Co., Ltd. . . . . 82, York Rd., King's Cross, N.

**Brake Solenoids.—(See Solenoids, Brake.)****Brakes (Water).—(See Dynamometers.)****Brass Founders and Brass Finishers.**

Bailey Sir W. H., & Co., Ltd. . . . . Salford, Manchester  
 Beckenham Foundry . . . . . Beckenham, Kent  
 Bell's United Asbestos Co., Ltd. . . . . 493, Southwark St., S.E.  
 Billington & Newton, Ltd. . . . . Longport, Staffordshire  
 Birckett T. M., & Sons, Ltd. . . . . Hanley, Staffordshire  
 Blundell's London Copper & Brass Works (1910), Ltd. . . . . West India Dock Rd., E. Exeter  
 Bodley Brothers & Co. . . . . Manchester  
 Broughton Copper Co., Ltd. . . . .  
 Clark George & Sons (Hull) Ltd. . . . . Waterhouse Lane, Hull  
 Crosby Valve & Engineering Co., Ltd. . . . . 147, Queen Victoria St., E.C.  
 Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
 Farnworth Engineering Co. . . . . Hall Lane, Moses Gate, Lincoln  
 France & Morgan . . . . . Govan, Glasgow  
 Hunt & Mitton, Ltd. . . . . Oozells St. North, Birmingham

Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
 Kent G., Ltd. . . . . 199, High Holborn, W.C. 1

Lunken Company, Ltd. . . . . 35, Great Dover St., S.E.  
 McRobie, John, & Sons . . . . . 94, Elliot St., Glasgow  
 North-Eastern Marine Engineering Co., Ltd. . . . . Northumberland Works, Wallsend-on-Tyne

Pegler Bros., & Co. (Glasgow), Ltd. . . . . Anderston, Glasgow  
 Penney & Co., Ltd. . . . . Lincoln

Piggott Thos., & Co., Ltd. . . . . Springhill, Birmingham  
 Pulsometer Engineering Co., Ltd. . . . . Nine Elms Ironworks, Reading

Russell John & Co., Ltd. . . . . Birmingham

Sterling Metals, Ltd. . . . . Coventry

Steven & Struthers . . . . . Kelvinhaugh, Glasgow

Stewart Duncan, & Co., Ltd. . . . . London Rd. Ironworks, Southampton (Glasgow)

Thornycroft J. I., & Co., Ltd. . . . . Bonnington Rd., Edinburgh

Wallsend Slipway & Engineering Co., Ltd. . . . . Wallsend

**Brass Rods and Sections.**

Bolton Thomas, & Sons, Ltd. . . . . 57, Bishopsgate, E.C. 2

Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
 Maclaren Robert, & Co., Ltd. . . . . Eglinton Works, Glasgow

McKechnie Brothers, Ltd. . . . . Rotton Park St., Birmingham

**Brewery Plant.**

Blair, Campbell & McLean, Ltd. . . . . Woodville St., Govan, Glasgow  
 Pontifex & Wood, Ltd. . . . . Union Foundry, Derby

**Brick and Tile-Making Machinery.**

Alexander, Herbert & Co., Ltd. . . . . Leeds  
 Bodley Bros., & Co. . . . . Exeter  
 Bradley & Craven, Ltd. . . . . Westgate Common Foundry, Wakefield

Brightside Foundry & Eng. Co., Ltd. . . . . Sheffield  
 Smith F. L., & Co., Ltd. . . . . 20, Essex St., W.C. 2

**Bridge Foundation Cylinders.—(See also Structural Engineering.)**

Clay Cross Co., Ltd. . . . . Clay Cross, near Chesterfield  
 Head, Wrightson & Co., Ltd. . . . . Thornaby-on-Tees

**Bridges.—(See Structural Engineering.)****Briquette Machinery.**

Briquette Machinery, Ltd. . . . . Charnmouth St., Leeds

**Buffers.**

Brown John, & Co., Ltd. . . . . Sheffield  
 Cammell Laird & Co., Ltd. . . . . Sheffield  
 Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
 MacLellan P. & W., Ltd. . . . . Clutha Works, Glasgow  
 Midland Railway Carriage and Wagon Co., Ltd. . . . . Midland Works, Birmingham  
 Turton T. & Sons, Ltd. . . . . Sheaf Works, Sheffield

**Buildings (Iron and Steel).—(See Structural Engineering.)****Buildings (Portable).**

Bath T., & Co. . . . . 18, Savoy St., W.C. 2

**Buoys (Iron and Steel).**

Bellamy John, Ltd. . . . . Millwall, E.  
 Brown, Lenox & Co. (London), Ltd. . . . . Millwall, E.  
 Robey & Co., Ltd. . . . . Lincoln  
 Sudron, Thomas & Co., Ltd. . . . . Stockton-on-Tees

**Burners (Gas).****Cabinets (Engineers').****Cable Laying Machinery.**

Clarke, Chapman & Co., Ltd. . . . . Victoria Works, Gateshead-on-Tyne

**Cables (Chain).**

Wood Henry, & Co., Ltd. . . . . Saltney, near Chester

**Cables (Electric Light, Telegraph and Telephone).**

|                                                        |                                      |
|--------------------------------------------------------|--------------------------------------|
| British Aluminium Co., Ltd.                            | 109, Queen Victoria St.,             |
| British Insulated & Helsby Cables, Ltd.                | Prescot, Lancashire                  |
| India Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silver town, E.                      |
| Johnson & Phillips, Ltd.                               | Charlton, S.E. 7                     |
| New Gutta Percha Co., Ltd.                             | Darwood House, New Broad St., E.C. 2 |
| Siemens Bros. & Co., Ltd.                              | Woolwich, S.E. 18                    |

**Canteen Equipment.**

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Brightside Foundry & Engineering Co., Ltd. | Sheffield                     |
| Carron Company                             | Carron, Stirlingshire         |
| Jackson Boilers, Ltd.                      | 81, Kirkstall Rd., Leeds      |
| Wright John, & Co.                         | Essex Wks., Aston, Birmingham |

**Capstans (Steam, Hydraulic & Electric).**

|                             |                           |
|-----------------------------|---------------------------|
| Berry Henry, & Co., Ltd.    | Croydon Works, Leeds      |
| Booth Joseph, & Bros., Ltd. | Rodley, Leeds             |
| Campbell & Calderwood       | Soho Engine Wks., Paisley |
| Chambers John, Ltd.         | Oulton Broad, Lowestoft   |
| Clarke, Chapman & Co., Ltd. | Gateshead-on-Tyne         |
| Napier Bros., Ltd.          | 130, Hyde Park Street,    |
| Sandycroft Limited          | Chester (Glasgow, W.)     |
| Turnbull Alex., & Co., Ltd. | Bishopbriggs, Glasgow     |

**Carbons (Electric).**

|                                  |                      |
|----------------------------------|----------------------|
| Electrode Co. of Sheffield, Ltd. | Wincobank, Sheffield |
|----------------------------------|----------------------|

**Carburettors and Vaporisers.**

|                                |                         |
|--------------------------------|-------------------------|
| Thornycroft J. I., & Co., Ltd. | Basingstoke             |
| Zenith Carburettor Co., Ltd.   | 40-42, Newman St., W. 1 |

**Carriage (Railway) Builders.**

|                                               |                           |
|-----------------------------------------------|---------------------------|
| Birmingham Railway Carriage & Wagon Co., Ltd. | Smethwick, Birmingham     |
| Clayton & Shuttleworth, Ltd.                  | Lincoln                   |
| Glasgow Railway Engineering Co., Ltd.         | Govan, Glasgow            |
| Hurst, Nelson & Co., Ltd.                     | Motherwell, N.B.          |
| MacLellan P. & W., Ltd.                       | Clutha Works, Glasgow     |
| Midland Railway Carriage and Wagon Co., Ltd.  | Midland Works, Birmingham |
| Pickering R. Y., & Co., Ltd.                  | Wishaw, nr. Glasgow       |

**Carriage (Railway) Fittings.**

|                           |                        |
|---------------------------|------------------------|
| Kaye Joseph, & Sons, Ltd. | 93, High Holborn, W.C. |
|---------------------------|------------------------|

**Cartridge-Making Machinery.**

|                        |            |
|------------------------|------------|
| Taylor & Challen, Ltd. | Birmingham |
|------------------------|------------|

**Case-Hardening Materials.**

|                         |                 |
|-------------------------|-----------------|
| Case-Making Machinery.  |                 |
| Ransome A., & Co., Ltd. | Newark-on-Trent |

**Castings (Aluminium).**

|                                                    |                         |
|----------------------------------------------------|-------------------------|
| Beckenham Foundry                                  | Beckenham, Kent         |
| Birkett T. M., & Sons, Ltd.                        | Hanley, Staffordshire   |
| Birmingham Aluminium Castings (1903) Co., Ltd.     | Birmingham              |
| Blunell's London Copper & Brass Works (1910), Ltd. | West India Dock Rd., E. |

**Castings (Aluminium)—Continued.**

|                           |                               |
|---------------------------|-------------------------------|
| Farnworth Engineering Co. | Hall Lane, Moses Gate, Bolton |
| Heath & Co., Ltd.         | New Eltham, S.E. 9            |
| King David, & Sons, Ltd.  | Possil Park, Glasgow          |
| Mills William, Ltd.       | Grove St., Birmingham         |
| Sterling Metals, Ltd.     | Coventry                      |

**Castings (Die).**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Atlas Metal & Alloys Co., Ltd.     | 52, Queen Victoria St., E.C.            |
| Fry's Metal Foundry                | 25-42, Holland St., Blackfriars, S.E. 1 |
| Holme Edward, & Co., Ltd.          | Altrincham, Cheshire                    |
| Hoyt Metal Co., Ltd.               | Deodar Rd., Putney, [S.W. 15]           |
| Patent Die Castings Co., Ltd.      | 61, Strode Rd., N.W. 10                 |
| Sparklets & General Mfg. Co., Ltd. | Angel Rd., Edmonton, N. 18              |

**Castings (Iron).—(See also Pipe Founders.)**

|                                              |                                        |
|----------------------------------------------|----------------------------------------|
| Alley & MacLellan, Ltd.                      | Sentinel Works, Glasgow                |
| Ashmore, Benson, Pease & Co., Ltd.           | Stockton-on-Tees                       |
| Beardmore W., & Co., Ltd.                    | Glasgow                                |
| Bodley Brothers & Co.                        | Exeter                                 |
| Brandon Bridge-Building Co., Ltd.            | Brandon Works, Motherwell              |
| Butterley Co., Ltd.                          | Derby                                  |
| Burmeister & Wain, Ltd.                      | Copenhagen, Denmark                    |
| Carron Company                               | Carron, Stirlingshire                  |
| Clay Cross Co., Ltd.                         | Clay Cross, nr. Chester                |
| Clayton & Shuttleworth, Ltd.                 | Lincoln                                |
| Daniell S. A., Ltd.                          | Birmingham                             |
| Entwistle & Gass, Ltd.                       | Bolton                                 |
| Glenfield & Kennedy, Ltd.                    | Kilmarnock, N.B.                       |
| Ham, Baker & Co., Ltd.                       | Langley Green, Birmingham              |
| Head, Wrightson & Co., Ltd.                  | Thornaby-on-Tees                       |
| Herbert Alfred, Ltd.                         | Coventry                               |
| Holding John, & Co., Ltd.                    | Sheffield                              |
| Hollingsdrake, H. & Son, Ltd.                | Stockport                              |
| Hurst, Nelson & Co., Ltd.                    | Motherwell, N.B.                       |
| Kent Geo., Ltd.                              | 199, High Holborn, W.C. 1              |
| King David, & Sons, Ltd.                     | Possil Park, Glasgow                   |
| Lilleshall Co., Ltd.                         | Oakengates, Shropshire                 |
| Marsden H. R., Ltd.                          | Soho Foundry, Leeds                    |
| Midland Railway Carriage and Wagon Co., Ltd. | Midland Works, Birmingham              |
| Mills, William, Ltd.                         | Grove St., Birmingham                  |
| North-Eastern Marine Engineering Co., Ltd.   | Northumberland Works, Wallsend-on-Tyne |
| Pegler Bros., & Co. (Glasgow), Ltd.          | Anderston, Glasgow                     |
| Penney, & Co., Ltd.                          | Lincoln                                |
| Piggott Thos., & Co., Ltd.                   | Springhill, Birmingham                 |
| Ransome A., & Co., Ltd.                      | Newark-on-Trent                        |
| Robey & Co., Ltd.                            | Lincoln                                |
| Roe & Harrison, Ltd.                         | Derby                                  |
| Rose, Downs & Thompson                       | Old Foundry, Hull                      |
| Shaw W., & Co.                               | Middlesbro'-on-Tees                    |
| Sterling Metals, Ltd.                        | Coventry                               |
| Thornycroft J. I., & Co., Ltd.               | Southampton                            |
| Tickle John, & Co., Ltd.                     | Providence Works, West Bromwich        |
| Unbreakable Pulley & Mill Gearing Co., Ltd.  | 48, West Gorton, Manchester            |
| Vickers Limited                              | Sheffield                              |

**Castings (Iron)—Continued.**

Wallsend Slipway & Engineering Co., Ltd. .. Wallsend  
Wallwork Henry, & Co., Ltd. .. Manchester

**Castings (Malleable Iron).**

Coventry Malleable, Ltd. .. Henry Street, Coventry  
Fletcher George, & Co., Ltd. .. Litchurch, Derby  
Hadfields Limited .. .. Hecla Works Sheffield  
Hale Thomas L., Ltd. .. .. Tipton, Staffordshire  
Le Bas Edward, & Co. .. .. Dock House, Billiter St., Lincoln [E.C.]  
Penney & Co., Ltd. .. ..  
Stringer & Co. (Sheffield), Ltd. .. .. Sheffield  
Tangyes Limited .. .. Birmingham  
Vickers Limited .. .. Sheffield  
Wallwork Henry, & Co., Ltd. .. Manchester

**Castings (Non-Ferrous).**

Atlas Metal & Alloys Co., Ltd. .. 52, Queen Victoria St., E.C.  
Bailey Sir W.H., & Co., Ltd. .. Salford, Manchester  
Beckenham Foundry .. .. Beckenham, Kent  
Bell's United Asbestos Co., Ltd. .. 59½, Southwark St., S.E.  
Billington & Newton, Ltd. .. Longport, Staffordshire  
Birkett T. M., & Sons, Ltd. .. Hanley, Staffordshire  
Bundell's London Copper & Brass Works (1910), Ltd. .. West India Dock Rd., E.  
Bodley Brothers & Co. .. Exeter  
Boulton & Paul, Ltd. .. Norwich  
Broughton Copper Co., Ltd. .. Manchester  
Burmester & Wain, Ltd. .. Copenhagen, Denmark  
Crosby Valve & Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.  
Delta Metal Co., Ltd. .. East Greenwich, S.E.  
Farnworth Engineering Co. .. Hall Lane, Moses Gate, Bolton  
France & Morgan .. .. Govan, Glasgow  
Ham Baker & Co., Ltd. .. Langley Green, Birmingham  
Heath & Co., Ltd. .. New Eltham, S.E. 9  
Hunt & Mitton, Ltd. .. Oozells St. North, Birmingham  
Hurst, Nelson & Co., Ltd. .. Motherwell, N.B.  
Kent Geo., Ltd. .. 199, High Holborn, W.C. 1  
Lunken Company, Ltd. .. 35, Great Dover St., S.E.  
McRobie John, & Sons .. 94, Elliot St., Glasgow  
North-Eastern Marine Engineering Co., Ltd. .. Northumberland Works, Wallsend-on-Tyne  
Pegler Bros. & Co. (Glasgow), Ltd. .. Anderston, Glasgow  
Penney & Co., Ltd. .. Lincoln  
Piggott Thos. & Co., Ltd. .. Springhill, Birmingham  
Pulsometer Engineering Co., Ltd. .. Nine Elms Ironworks, Reading  
Smith E. J., & Co. .. Hay Mills, Birmingham  
Sterling Metals, Ltd. .. Coventry  
Steven & Struthers .. Kelvinhaugh, Glasgow  
Stewart Duncan, & Co., Ltd. .. London Rd Ironworks, Glasgow  
Thornycroft, J. I., & Co., Ltd. .. Southampton  
Victoria Brass Foundry Co., Ltd. .. Bonnington Rd., Edinburgh  
Wallsend Slipway & Engineering Co., Ltd. .. Wallsend

**Castings (Steel).—(See also Manganese Steel Castings and Forgings.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
Allied Steel Makers & Founders, Ltd. .. Central House, Kingsway, W.C. 2  
Ashmore, Benson, Pease & Co., Ltd. .. Stockton-on-Tees  
Baird Archibald, & Son, Ltd. .. Hamilton  
Beardmore W., & Co., Ltd. .. Glasgow  
Bessemer Henry, & Co., Ltd. .. Sheffield  
Brandon Bridge-Building Co., Ltd. .. Brandon Works, Motherwell  
Brown John, & Co., Ltd. .. Sheffield  
Burmester & Wain, Ltd. .. Copenhagen, Denmark  
Cammell Laird & Co., Ltd. .. Sheffield  
Clayton & Shuttleworth, Ltd. .. Lincoln  
Colville David, & Sons, Ltd. .. Motherwell, nr. Glasgow  
Cottam Edwin, & Co., Ltd. .. Cardiff  
Craig A. F., & Co., Ltd. .. Paisley  
Darlington Forge, Ltd. .. Albert Hill, Darlington  
Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
Hadfields Limited .. .. Hecla Works, Sheffield  
Hale Thomas L., Ltd. .. Tipton, Staffordshire  
Henderson, John M., & Co. .. King's Works, Aberdeen  
Holcroft's Steel Foundry Co., Ltd. .. Bilston, South Staffordshire  
Holding John, & Co., Ltd. .. Sheffield  
Jackson P. R., & Co., Ltd. .. Manchester  
Jopling R., & Sons, Ltd. .. Sunderland  
Lloyd, F. H., & Co., Ltd. .. James Bridge Steel Wks., nr. Wednesbury  
Marsden H. R., Ltd. .. Soho Foundry, Leeds  
Mild Steel Castings, Ltd. .. Haymills, Birmingham  
Osborn Samuel, & Co., Ltd. .. Clyde Steel Works, Sheffield  
Penney & Co., Ltd. .. Lincoln  
Shaw W., & Co. .. Middlesbrough-on-Tees  
Steel Co. of Scotland, Ltd. .. 23, Royal Exchange Sq., Glasgow  
Stewarts & Lloyds, Ltd. .. 41, Oswald St., Glasgow  
Stringer & Co. (Sheffield), Ltd. .. Sheffield  
Vickers Limited .. .. Sheffield

**Cement (Iron, &c.).**

Notcutt Walter, Ltd. .. 8, White St., B.C.

**Cement (Portland).**

Ironite Co., Ltd. .. 11, Old Queen Street, Westminster, S.W. 1  
Maxted & Knott .. .. Burnett Avenue, Hull  
Rowse & Company .. 1, Dawson St., White-chapel, Liverpool

**Cement-Making Plant.**

Allen Edgar, & Co., Ltd. .. Sheffield  
Aveling & Porter, Ltd. .. Rochester  
Fletcher Geo., & Co., Ltd. .. Derby

**Centrifugal Drying Machines.—(See also Cream Separators, and Hydro-Extractors.)**

Broadbent T., & Sons, Ltd. .. Chapel Hill, Huddersfield  
Manlove, Allott & Co., Ltd. .. Nottingham  
Pott, Cassels & Williamson .. Motherwell, nr. Glasgow  
Tullis D. & J., Ltd. .. Glasgow

**Centrifugal Drying Machines—Continued.**

Watson, Laidlaw & Co., Ltd. 98, Dundas St. (South), Glasgow  
 Whitaker R. G., Ltd. .. 22, Southwark Bridge Rd., S.E. 1

**Cesspool Exhauster.**

Merryweather & Sons, Ltd. Greenwich Rd., S.E.

**Chains (Gearing).**

Association of British Driving Chain Manufacturers } Bassishaw House,  
 Brampton Bros., Ltd. .. Basinghall St., E.C. 2  
 Coventry Chain Co., Ltd. .. Birmingham  
 Renold Huns, Ltd. .. Coventry  
 Burnage Works, Didsbury, Manchester  
 Stringers (Cradley Heath), Ltd. .. Cradley Heath, Staffs  
 Westinghouse Morse Chain Co., Ltd. .. Letchworth, Herts

**Chemical Works (Plant for).**

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow  
 Blair, Campbell & McLean, Ltd. .. Woodville St., Govan, Glasgow  
 British Chemical Ware Manufacturers Asso., Ltd. .. 51, Lincoln's Inn Fields, W.C. 2  
 Dowson & Mason Gas Plant Co., Ltd. .. Levenshulme, Manchester  
 Fairfax Boiler Works, Ltd. .. Lincoln  
 London Aluminium Co., Ltd. .. Aston, Birmingham  
 Manlove, Allott & Co., Ltd. .. Nottingham  
 Piggott Thos., & Co., Ltd. .. Birmingham  
 Power Gas Corporation, Ltd. .. Stockton-on-Tees  
 Thompson John, Ltd. .. Wolverhampton

**Chimneys.**

Bellamy John, Ltd. .. Millwall, E.  
 Clayton Son, & Co., Ltd. .. Hunsley, Leeds  
 Steel Pipe Company, Ltd. .. Kirkcaldy, N.B.

**Chucks.—(See also Machine Tools.)**

Budgett H. M. .. Crown Works, Chelmsford  
 Forbes Bros. .. Doe St., Birmingham  
 Gardner T. J. .. Century Tool Works, Bristol  
 Herbert, Alfred, Ltd. .. Coventry  
 Jacobs Manufacturing Co. .. Hartford, Conn., U.S.A.  
 Jones A. A., & Shipman, Ltd. .. East Park Rd., Leicester  
 Notcutt, Walter P., Ltd. .. 8, White St., Moorfields, E.C. 2  
 Rapid Magnetizing Machine Co., Ltd. .. 52, Lombard St., Birmingham  
 Robertson Thos. R. .. 7, Hunt St., Liverpool  
 St. George's Engineering Co. .. Birmingham  
 Selson Engineering Co., Ltd. .. 83-85, Queen Victoria St., E.C. 4  
 Shaw John, & Sons (Wolverhampton), Ltd. .. Wolverhampton  
 Taylor, Charles, (Birmingham), Ltd. .. Bartholomew Sq., Birmingham  
 Wharton H., Ltd., .. Reddish, Stockport

**Clocks.—(See Watches & Clocks.)****Cloth Finishing Machinery.****Clutches (Friction).**

Bridge David, & Co., Ltd. .. Castleton, Manchester  
 Broadbent Thom., & Sons, Ltd. .. Chapel Hill, Huddersfield  
 Crofts (Engineers), Ltd. .. Empire Works, Bradford  
 Edmeston Archibald, & Sons, Ltd. .. Patricroft, nr. Manchester  
 Entwistle & Gass, Ltd. .. Bolton  
 Ferodo, Ltd. .. Chapel-en-le-Frith  
 Reddaway F. & Co., Ltd. .. Pendleton, Manchester  
 Unbreakable Pulley & Mill Gearing Co., Ltd. .. 48, West Gorton, Manchester  
 Wigglesworth F., & Co., Ltd. .. Clutch Works, Shipley, nr. Bradford

**Coal Handling Plant.—(See also Conveyors & Elevators.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Dempster Robert, & Sons, Ltd. .. Elland, Yorkshire  
 General Electric Co., Ltd. .. 67, Queen Victoria St., E.C. 4  
 Head, Wrightson & Co., Ltd. .. Thornaby-on-Tees  
 Jenkins, W. J., & Co., Ltd. .. Beehive Works, Retford  
 Lidgerwood Manufacturing Co. .. Friars House, New Broad St., E.C.  
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester  
 Strachan & Henshaw, Ltd. .. Bristol  
 Werf Conrad .. Haarlem, Holland

**Coal (Pulverizing & Drying Plant).**

Fuller-Lehigh Co. .. Fullerton, Pa., U.S.A.  
 Pratchitt Brothers .. Denton Iron Works, Carlisle

**Cocks.—(See Valves, Gas, Steam, Water, &c.)****Coining Machinery.**

Taylor & Challen, Ltd. .. Birmingham

**Coke Rams.**

Ransomes & Rapier, Ltd. .. Ipswich

**Colliery Plant.—(See also Haulage Plant, Mining Machinery, and Pumps.)**

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow  
 Barclay Andrew Sons & Co., Ltd. .. Caledonia Works, Kilmarnock  
 Bennis Ed., & Co., Ltd. .. Bolton  
 Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.  
 Carron Company .. Carron, Shropshire  
 Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield  
 Clayton Son, & Co., Ltd. .. Hunslet, Leeds  
 Fletcher George & Co., Ltd. .. Litchurch, Derby  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hathorn, Davey & Co., Ltd. .. Leeds  
 Head, Wrightson & Co., Ltd. .. Thornaby-on-Tees  
 Heenan & Froude, Ltd. .. Worcester Eng. Wks. Worcester  
 Lidgerwood Mfg. Co. .. Friars House, New Broad St., E.C.  
 Lilleshall Co., Ltd. .. Oakengates, Shropshire  
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester  
 Robey & Co., Ltd. .. Lincoln  
 Ruston & Hornsby, Ltd. .. Grantham  
 Sandycroft Limited .. Chester

**Colliery Proprietors.**

Brown John, & Co., Ltd. .. Sheffield  
 Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield  
 Glasgow Iron & Steel Co., Ltd. .. Wishaw Iron & Steel Works, Wishaw



**Compasses.**

Negretti &amp; Zambra .. 38, Holborn Viaduct, E.C.

**Composition for Covering Boilers, &c.—(See Non-conducting Compositions.)****Compressed Gases (Bottles and Fittings for).**

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.

**Concrete Blocks and Slabs (Machines for Making).****Concrete Mixers.—(See also Mixers.)**

Hardy &amp; Padmore, Ltd. .. Worcester

Ransome-ver Mehr Machinery Co., Ltd. .. 14 &amp; 16, Grosvenor Gardens, Westminster, S.W.

Stothert &amp; Pitt, Ltd. .. Bath

**Concrete (Plain and Reinforced).**

British Reinforced Concrete Engineering Co., Ltd. .. 1, Dickinson St., Manchester

Expanded Metal Co., Ltd. .. York Mansions, York St., Westminster, S.W.

Holst K., &amp; Co. .. 1, Victoria St., S.W. 1

**Condensers (Evaporative).****Condensers (Fresh Water)—(See Distilling (Water) Apparatus.)****Condensers (for Steam Engines).**

Adamson Daniel, &amp; Co., Ltd. .. Dukinfield

Allen W.H. Sons, &amp; Co., Ltd. .. Bedford

Belliss &amp; Morcom, Ltd. .. Ledsam St. Works, Birmingham

Caird &amp; Rayner .. 777, Commercial Rd., E.

Campbell &amp; Calderwood, .. Soho Works, Paisley, Scotland

Carruthers J. H., &amp; Co., Ltd. .. Polmadie, Ironworks, Glasgow

Clyne Engineering Co. .. 94, Market St., Manchester

Cole, Marchent &amp; Morley, Ltd. .. Bradford

Eckers, Wyss &amp; Co. .. 109, Victoria St., S.W.

Friedenthal, Ltd. .. Preston

Hall J. P., &amp; Sons, Ltd. .. Peterborough

Harris Patent Feed-Water Filter (1910), Ltd. .. 24, Grainger St. West, Newcastle-on-Tyne

Hayward Tyler &amp; Co., Ltd. .. 99, Queen Victoria St., E.C.

Hick, Hargreaves &amp; Co., Ltd. .. Soho Works, Bolton

Metropolitan-Vickers Electrical Co., Ltd. .. Trafford Park, Manchester

Muirles Watson Co., Ltd. .. Scotland St., Glasgow

Parsons C. A., &amp; Co., Ltd. .. Newcastle-on-Tyne

Piggott Thos., &amp; Co., Ltd. .. Springhill, Birmingham

Premier Cooler &amp; Engineering Co., Ltd. .. Station Works, Shalford, nr. Guildford, Surrey

Pulsometer Engineering Co., Ltd. .. Nine Elms Ironworks, Reading

Richardsons, Westgarth and Co., Ltd. .. Hartlepool

Robey &amp; Co., Ltd. .. Lincoln

Royles Limited .. Irlam, near Manchester

Thornycroft J.L., &amp; Co., Ltd. .. Southampton

Weir G. &amp; J., Ltd. .. Cathcart, Glasgow

Wheeler Condenser &amp; Engineering Co. .. Carteret, N.J., U.S.A.

Worthington-Simpson, Ltd. .. Queen's House, Kingsway, W.C. 2

Wright's Forge &amp; Engineering Co., Ltd. .. Tipton, Staffs.

**Constructional.—(See Structural Engineering.)****Contractors.**

English Electric Co., Ltd. .. Queen's House, Kingsway, W.C. 2

**Controllers (Electrical)—(See Motor Starters.)****Conveyors and Elevators.—(See also Coal Handling Plant.)**

Allen Edgar, &amp; Co., Ltd. .. Sheffield

Barry Henry, &amp; Co., Ltd. .. Aberdeen

Bennis Ed., &amp; Co., Ltd. .. Bolton

British Rowway Engineering Co., Ltd. .. 7, Mincing Lane, E.C. 3

Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.

Bullivant &amp; Co., Ltd. .. 72, Mark Lane, E.C.

Conveyor &amp; Elevator Co. .. Accrington, Lancashire

Dempster Robert, &amp; Sons, Ltd. .. Eland, Yorkshire

Figue, Ltd. .. Haarlem, Holland

Fletcher George, &amp; Co., Ltd. .. Litchurch, Derby

Fraser &amp; Chalmers Engineering Works. .. Erith, Kent

Gibbons Bros., Ltd. .. Dudley, Worc.

Gutta Percha &amp; Rubber, Ltd. .. Toronto, Canada

Head, Wrightson &amp; Co., Ltd. .. Thornaby-on-Tees

Heenan &amp; Froude, Ltd. .. Worcester

Jeffrey Manufacturing Co. .. Columbus, Ohio, U.S.A.

Jenkins W. J., &amp; Co., Ltd. .. Beehive Works, Retford

Lidgerwood Mfg. Co. .. Friars House, New Broad St., E.C.

Marsden H. R., Ltd. .. Soho Foundry, Leeds

Pott, Cassels &amp; Williamson .. Motherwell, nr. Glasgow

Ransome-ver Mehr Machinery Co., Ltd. .. 14 &amp; 16, Grosvenor Gardens, Westminster, S.W.

Reddaway F., &amp; Co., Ltd. .. Pendleton, Manchester

Smith F. L., &amp; Co., Ltd. .. 20, Essex St., W.C. 2

Strachan &amp; Henthaw, Ltd. .. Bristol

**Cooking Plant.**

Carron Company .. Carron, Stirlingshire

**Cooling Towers.—(See Water Cooling Plant.)****Copper Ingots, Bars and Sheets.**

Bolton Thomas, &amp; Sons, Ltd. .. 57, Bishopsgate, E.C. 2.

Broughton Copper Co., Ltd. .. Manchester

**Coppersmiths.**

Birmingham Battery and Metal Co. .. Birmingham

Blair, Campbell &amp; McLean, Ltd. .. Woodville St., Govan, Glasgow

Blundell's London Copper &amp; Brass Works (1910) Ltd. .. West India Dock Rd., E.

Clark George, &amp; Sons (Hull), Ltd. .. Waterhouse Lane, Hull

Delta Metal Co., Ltd. .. East Greenwich, S.E.

North-Eastern Marine Engineering Co., Ltd. .. Northumberland Works, Wallsend-on-Tyne

**Copying Presses.**

Daniell S. A., Ltd. .. Edward St., Parade, Birmingham

**Corrugated Boiler Furnaces.**

Leeds Forge Co., Ltd. .. Leeds

**Cotton Presses.—(See also Hydraulic Presses.)**

Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Coles H. J., Ltd. .. .. London Crane Works,  
 Derby  
 Fawcett, Preston & Co., Ltd. 17, York St., Liverpool  
 Piggott Thos., & Co., Ltd. Birmingham  
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Stewart Duncan, & Co., Ltd. London Rd. Ironworks,  
 Glasgow  
 Tangyes, Ltd. .. .. Birmingham

**Counters for Revolutions.**

Avery W. & T., Ltd. .. Soho Foundry, Birmingham  
 Budenberg Gauge Co., Ltd. Broadheath, nr. Manchester  
 Selson Engineering Co., } 85, Queen Victoria St.,  
 Ltd. .. .. } E.C. 4

**Couplings (Railway).**

Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham  
 Gibbins R. C., & Co. .. Berkley St., Birmingham  
 Hurst, Nelson & Co., Ltd. .. Motherwell, N.B.  
 Weldless Chains, Ltd. .. Coatbridge

**Couplings (Shaft).**

Electro-Metals, Ltd. .. Imperial Buildings, 56,  
 Kingsway, W.C. 2  
 Hampton & Beebe, Ltd. Wednesbury, South  
 Staffs.  
 Jardine, J. .. Deering St., Nottingham  
 Newton, Bean & Mitchell Dudley Hill, Bradford  
 Platt Samuel, Ltd. .. Wednesbury  
 Power Plant Co., Ltd. .. West Drayton, Middx.  
 Richards George, & Co., Ltd. Broadheath, nr. M'chester  
 Smith & Grace Screw Boss Pulley Co., Ltd. .. Thrapston  
 Taylor & Challen, Ltd. .. Birmingham  
 Unbreakable Pulley & Mill } 48, West Gorton, Man-  
 Gearing Co., Ltd. .. } chester  
 Wigglesworth F. & Co., Ltd. Clutch Works, Shipley,  
 near Bradford

**Cranes, Hoisting Machines, Travellers, Winches, &c.—  
(See also Lifts and Hoisting Machinery.)**

Anderson-Grice Co., Ltd. Carnoustie, Scotland  
 Arol Sir William, & Co., } Dalmarnock Ironworks,  
 Ltd. .. .. } Glasgow  
 Bedford Engineering Co. Bedford, England  
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Booth Joseph, & Bros., Ltd. Rodley, Leeds  
 Brecknell, Munro & Rogers, Ltd. Thrissell St., Bristol  
 British Electric Plant Co., Ltd. 66, Carrick St., Glasgow  
 British Steel Piling Co. Billiter St., E.C. 3  
 Broadbent Thos., & Sons, Ltd. Chapel Hill, Huddersfield  
 Brown Hoisting Machinery Co. .. .. Cleveland, Ohio, U.S.A.  
 Browning Co. .. .. Cleveland, Ohio, U.S.A.

**Cranes, Hoisting Machines, Travellers, Winches, &c.—  
(See also Lifts and Hoisting Machinery.)—Continued.**

Butler Samuel, & Co., Ltd. Stanningley, near Leeds  
 Chambers John, Ltd. .. Oulton Broad, Lowestoft  
 Chambers, Scott & Co., Ltd. Motherwell  
 Chaplin Alex. & Co., Ltd. .. Govan, Glasgow  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Coles H. J., Ltd. .. .. London Crane Works,  
 Derby  
 Cowans, Sheldon & Co., Ltd. Carlisle  
 Craven Brothers (Manchester), Ltd. .. Vauxhall Wks., Reddish,  
 Stockport  
 East Ferry Road Engineering Works Co., Ltd. .. Millwall, B.  
 Fidge, Ltd. .. .. Haarlem, Holland  
 Gibbins R. C., & Co. .. Berkley St., Birmingham  
 Grafton & Co. .. Bedford  
 Grant, Ritchie, & Co., Ltd. Kilmarnock  
 Grieve John, & Co. .. Motherwell, Scotland  
 Henderson, John M., & Co. Aberdeen, Scotland  
 Heywood S. H., & Co., Ltd. Reddish  
 Higginbottom & Mannock, Ltd. .. West Gorton, Manchester  
 Holt & Willetts .. .. Lion Works, Cradley  
 Heath  
 Horseley Bridge & Engineering Co., Ltd. .. Tipton, Staffordshire  
 Jack Alexander, & Co. .. Motherwell  
 Lidgerwood Mfg. Co. .. Friars House, New Broad  
 St., E.C.  
 Marshall, Fleming, & Co., Ltd. Motherwell, N.B.  
 Middleton Bros. .. .. Pudsey, Leeds  
 Musgrave Bros. .. .. Leeds  
 Napier Brothers, Ltd. .. 130 Hyde Park St., Glas-  
 gow, W.  
 Pickerings, Ltd. .. .. Stockton-on-Tees  
 Priestman Brothers, Ltd. .. Holderness F'mdry, Hull  
 Ransomes & Rapier, Ltd. .. Ipswich  
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull  
 Royce Limited .. .. Trafford Pk., Manchester  
 Russell George, & Co., Ltd. Motherwell, nr. Glasgow  
 Selson Engineering Co., Ltd. 85, Queen Victoria St.,  
 E.C.  
 Shephard Electric Crane & Hoist Co. .. .. Montour Falls, New York,  
 U.S.A.  
 Smith Thos., & Sons (Rodley), Ltd. .. .. Rodley, nr. Leeds  
 Smulders A. F. .. .. Schiedam, Holland  
 Stewart Duncan & Co., Ltd. London Rd. Ironworks,  
 Glasgow  
 Stothert & Pitt, Ltd. .. Bath  
 Strachan & Henshaw, Ltd. Bristol  
 Sunderland Forge & Engineering Co., Ltd. .. Pallion, Sunderland  
 Tangyes Limited .. .. Birmingham  
 Taylor & Hubbard .. .. Leicester  
 Vaughan Crane Co., Ltd. .. Openshaw, Manchester  
 Waygood-Otis, Ltd. .. Falmouth Rd., S.E.  
 Werf Conrad .. .. Haarlem, Holland  
 Wharton H., Ltd. .. Reddish, Stockport  
 Whitakers (Engineers), Ltd. Horsforth, Leeds  
 Willetts Charles, Junr., Ltd. .. .. Cradley Heath, Staffs.  
 Wilson John H., & Co. .. Dock House, Birkenhead  
 Wonham, Bates & Goode, } 3, London Wall Build-  
 Inc. .. .. } ings, E.C.  
 Youngs .. .. Ryland St. Works,  
 Birmingham

**Crank Axles.**

Bessemer Henry, & Co., Ltd. Sheffield  
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
 Hadfields Limited. Hecla Works, Sheffield  
 Stringer & Co. (Sheffield), Ltd. Sheffield  
 Vickers Limited. Sheffield

**Crankshafts.**

Beardmore Wm., & Co., Ltd. Glasgow  
 Bessemer Hy., & Co., Ltd. Sheffield  
 Brown John, & Co., Ltd. Sheffield  
 Cammell Laird & Co., Ltd. Sheffield  
 Clarke's Crank & Forge Co., Ltd. Lincoln  
 Dennystown Forge Co. Dumbarton  
 Fife Forge Co., Ltd. Kirkcaldy, Scotland  
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
 Hadfields Limited. Hecla Works, Sheffield  
 McNeil C., Ltd. Glasgow  
 Thornycroft J. I., & Co., Ltd. Southampton  
 Vickers Limited. Sheffield

**Cream Separators.**

Pott, Cassels & Williamson Motherwell, nr. Glasgow

**Crucibles.**

Morgan Crucible Co., Ltd. Church Rd., S.W. 11

**Crushing Machinery.—(See Disintegrators, Grinding Mills, and Stonebreakers.)****Cupolas.**

Alldays & Onions, Ltd. Birmingham  
 Constructional Engineering Co. Charles Henry St., Birmingham  
 Wonham, Bates & Goode, Inc. 3, London Wall Buildings, E.C.

**Cutting-off Machines.**

Clifton & Baird, Ltd. Johnstone, Scotland  
 Taylor Charles (Birmingham), Ltd. Bartholomew Sq., Birmingham  
 Winn Charles, & Co. Granville Place, Birmingham

**Destructors.**

Dowson & Mason Gas Plant Co. Levenshulme, Manchester  
 Heenan & Froude, Ltd. Destructor Dept., Worcester Engineering Works, Worcester  
 Manlove, Alliot & Co., Ltd. Nottingham  
 Meldrums Limited. Timperley, nr. Manches'r  
 New Destructor Co., Ltd. Walter House, Bedford St., Strand, W.C.

**Dials.**

Cooke, James, & Son { 8 & 9, Wrentham St., Birmingham

**Die Sinkers.**

Neal Geo. H., & Co., Ltd. 11, Southampton Row, W.C. 1  
 Prescott Engineering Co., Ltd. Prescott, Lancs.

**Disincrustants.**

Bell's United Asbestos Co., Ltd. 59½, Southwark St., S.E.  
 Tranter's W. J., Boiler Appliance Co. Tipton, Staffordshire

**Disinfectors.**

Manlove, Alliot & Co., Ltd. Nottingham  
 Tullis D. & J., Ltd. Kilbowie Ironworks, nr. Glasgow

**Disintegrators.—(See also Grinding Mills, Ore Crushing, and Stonebreakers.)**

Allen Edgar, & Co., Ltd. Sheffield  
 Bradley Pulverizer Co. 37, Walbrook, E.C.  
 Fuller-Leigh Co. Fullerton, Pa., U.S.A.  
 Goodwin, Barsby & Co. Leicester  
 Hadfields Limited. Hecla Works, Sheffield  
 Hardy & Padmore Ltd. Worcester  
 Marsden H. R., Ltd. Soho Foundry, Leeds  
 Patent Lighting Crusher Co., Ltd. 14a, Rosebery Av., Gray's Inn Rd., E.C.  
 Pratchitt Bros. Denton Ironworks, Carlisle  
 Smith, F. L., & Co., Ltd. 20, Essex St., W.C. 2  
 Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., B.C.  
 Wood Hugh, & Co., Ltd. 65, Fenchurch St., E.C.

**Distillery Plant.**

Blair, Campbell & McLean, Ltd. Woodville St., Govan, Glasgow  
 Dowson & Mason Gas Plant Co., Ltd. Levenshulme, Manchester  
 Fawcett, Preston & Co., Ltd. Liverpool  
 Mirreles Watson Co., Ltd. Scotland St., Glasgow  
 Pontifex & Wood, Ltd. Union Foundry, Derby

**Distilling (Water) Apparatus.—(See also Evaporators.)**

Caird & Rayner 777, Commercial Rd., E.  
 Chaplin Alex., & Co. Govan, Glasgow  
 Griscom-Russell Co. 95, West St., New York, U.S.A.  
 Kirkaldy John, Ltd. 101, Leadenhall St., E.C. 3  
 Mirreles Watson Co., Ltd. Scotland St., Glasgow  
 Royles Limited. Irlam, near Manchester

**Diving Apparatus.**

Siebe, Gorman & Co., Ltd. Neptune Works, S.E.

**Docks (Graving, &c.).**

Humber Graving Dock & Engineering Co., Ltd. Kings Dock, Immingham.

**Doors (Watertight).****Draught.—(See Forced and Induced Draught.)****Draw Benches.**

Platt Samuel, Ltd. Wednesbury

**Drawing Instruments, &c.**

American Lead Pencil Co. 173 & 175, Lower Clapton Rd., N.E.  
 Halden J., & Co., Ltd. 8, Albert Sq., Manchester  
 Hall B. J., & Co., Ltd. Chalfont Hse., Gt. Peter St., Westminster, S.W.  
 Negretti & Zambra 38, Holborn Viaduct, E.C.  
 United Metal Engraving Co., Ltd. 40, High Bridge, Newcastle-on-Tyne

**Drawings, Tracings, &c.**—(See also *Photography & Materials, &c.*)

Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester  
 Northern Consulting & Design Office .. 64, Dale St., Liverpool  
 Owen & Crisp .. 64, Basinghall St., E.C. 2

**Dredgers (Suction).**

Ferguson Brothers (Port) Newark Works, Port  
 Glasgow, Ltd. .. Glasgow  
 Gwynnes, Ltd. .. Hammersmith Ironwks., W.  
 Lobnitz & Co., Ltd. .. Renfrew, Scotland  
 Simons W., & Co., Ltd. .. Renfrew, Scotland  
 Smit L., & Zoons .. Kinderdijk, near Rotterdam, Holland

**Dredging Machines.**

Bucyrus Co. .. 13, Victoria St., Westminster, S.W.  
 Coles H. J., Ltd. .. London Crane Works, Derby  
 Ferguson Brothers (Port) Newark Works, Port  
 Glasgow, Ltd. .. Glasgow  
 Fleming & Ferguson, Ltd. Paisley, N.B.  
 Gwynnes, Ltd. .. Hammersmith Ironwks., W.  
 Hadfields Limited .. Hecla Works, Sheffield  
 Lobnitz & Co., Ltd. .. Renfrew, Scotland  
 Priestman Bros., Ltd. .. Holderness Foundry, Hull  
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull  
 Simons W., & Co., Ltd. .. Renfrew, N.B.  
 Smit L., & Zoons .. Kinderdijk, Holland  
 Smulders A. F. .. Schiedam, Holland  
 Stothert & Pitt, Ltd. .. Bath  
 Vickers Limited .. Barrow-in-Furness  
 Werf Conrad .. Haarlem, Holland  
 Western Wheeled Scraper Co. .. Aurora, Illinois, U.S.A.  
 Westwood, Joseph, & Co., Ltd. .. Napier Yard, Millwall, E.  
 Whitaker D. .. 1, Union St., Leicester

**Drilling Machines.**—(See *Machine Tools.*)**Drills (Twist).**

Armstrong, Sir W. G., Whitworth & Co., Ltd. .. 8, Great George St., S.W. 1  
 Birmingham Small Arms Co., Ltd. .. Birmingham  
 Churchill Chas., & Co., Ltd. .. 9 to 15, Leonard St., E.C.  
 Stead, J., & Co., Ltd. .. Manor Works, Sheffield

**Drop Forgings.**—(See *Forgings—Drop.*)**Drop Hammers.**—(See *Hammers—Drop.*)**Drums.**—(See *Tanks and Drums.*)**Drying Apparatus.**—(See also *Centrifugal Drying Machines, and Hydro-Extractors.*)

Electro-Metals, Ltd. .. Imperial Buildings, 56, Kingsway, W.C. 2  
 Keith James, & Blackman } 27, Farringdon Avenue, E.C.  
 Co., Ltd. ..  
 Manlove, Elliott & Co., Ltd. Nottingham  
 Musgrave & Co., Ltd. .. St. Ann's Ironworks, Belfast  
 Smidh, F. L., & Co., Ltd. 20, Essex St., W.C. 2  
 Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., E.C.

**Dust Collectors.**—(Mills, Factories, Breweries, &c.)

British Vacuum Cleaner } Dept. 5/20, Parson's  
 Co., Ltd. .. Green Lane, S.W.  
 Keith James, & Blackman }  
 Co., Ltd. .. 27, Farringdon Av., E.C.  
 Ransome A., & Co., Ltd. Stanley Wks., Newark-on-Trent  
 Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., E.C.

**Dust Shields for Bearings.**

Vickers B. R., & Sons, Ltd. Leeds

**Dynamometers.**

Heenan & Froude, Ltd. .. Worcester

**Dynamos.**—(See *Electric Lighting and Power Plant.*)**Ebonite.**—(See also *Indianrubber Goods and Woodite for Steam, &c., Packings.*)

India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, E.  
 Reddaway F., & Co., Ltd. .. Pendleton, Manchester

**Economisers (Fuel).**

Clay Cross Co., Ltd. .. Clay Cross, near Chesterfield  
 Lyons Oxy-Acetylene Economiser Co., Ltd. .. Bates Hill, Redditch

**Electric Accumulators.**—(See *Accumulators.*)**Electric Bells and Signals.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester

**Electric Cables.**—(See also *Telegraph Wire and Cables.*)

British Aluminium Co., Ltd. 109, Queen Victoria St., E.C. 4  
 British Insulated & Helsby Cables, Ltd. .. Prescot, Lancashire  
 Hackbridge Cable Co., Ltd. 15, Victoria St., S.W. 1  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, E.

**Electric Lighting and Power Plant.**—(See also *Motor Starters & Accessories, and Switchboards & Accessories.*)

Allen W. H., Sons & Co., Ltd. Bedford  
 Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Brecknell, Munro & Rogers, Ltd. .. Thrissell St., Bristol  
 British Electric Plant Co., Ltd. 66, Carrick St., Glasgow  
 British Insulated & Helsby Cables, Ltd. .. Prescot, Lancashire  
 British Thomson-Houston Co., Ltd. .. Rugby  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Consolidated Construction Co., Ltd. .. Cloak Lane, Cannon St., E.C. 4  
 Electric & Ordnance Accessories Co., Ltd. .. Aston, Birmingham  
 Electromotors, Ltd. .. Openshaw, Manchester  
 English Electric Co., Ltd. Queen's House, Kingsway, W.C. 2  
 Fowler J., & Co. (Leeds), Ltd. Leeds  
 General Electric Co., Ltd. .. Queen Victoria St., E.C. 4  
 Hackbridge Cable Co., Ltd. 15, Victoria St., S.W. 1  
 Hall J. P., & Co., Ltd. .. Oldham

**Electric Lighting and Power Plant—Continued.**

Hamworthy Engineering Co., Ltd. 76, Victoria St., S.W. 1  
 Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
 Higgs Bros. Summer Hill St., Birmingham  
 Holmes J. H., & Co. Newcastle-upon-Tyne  
 Howden James, & Co., Ltd. Scotland St., Glasgow  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, E.  
 Johnson & Phillips, Ltd. Charlton, S.E. 7  
 Lancashire Dynamo & Motor Co., Ltd. Trafford Pk., Manchester  
 Lister R. A., & Co., Ltd. Dursley  
 Lyon Arthur, & Wrench, Ltd. 36, Victoria St., S.W. 1  
 Mavor & Coulson, Ltd. Glasgow  
 Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester  
 Parsons C. A., & Co., Ltd. Newcastle-upon-Tyne  
 Paul Matthew, & Co., Ltd. Levensall Works, Dumbarton

Rees Roturbo Manufacturing Co., Ltd. Wolverhampton  
 Royce Ltd. Trafford Park, Manchester  
 Sandycroft, Ltd. Chester  
 Siemens Brothers Dynamo Works, Ltd. Palace Place Mansions, Kensington Court, W.8  
 Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., E.C.  
 Sunderland Forge & Engineering Co., Ltd. Pallion, Sunderland  
 Thornycroft J. I., & Co., Ltd. 10, Grosvenor Place, S.W. 1

**Electric Motors.**

Allen W. H., Son & Co., Ltd. Bedford  
 Beyer, Peacock & Co., Ltd. Gorton Foundry, Manchester  
 Booth Joseph, & Bros., Ltd. Rodley, Leeds  
 British Electric Plant Co., Ltd. 78, St. Vincent St., Glasgow  
 British Thomson-Houston Co., Ltd. Rugby  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Drake & Gorham, Ltd. 66, Victoria St., S.W. 1  
 Electric Construction Co., Ltd. 9, New Broad St., E.C. 2  
 Electric & Ordnance Accessories Co., Ltd. Aston, Birmingham  
 Electric Control, Ltd. Bridgeton, Glasgow  
 Electromotors, Ltd. Openshaw, Manchester  
 English Electric Co., Ltd. Queen's House, Kingsway, W.C. 2  
 Hall J. P., & Co., Ltd. Oldham  
 Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
 Higgs Bros. Summer Hill St., Birmingham  
 Holmes J. H., & Co. Newcastle-upon-Tyne  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, E.  
 Jennings Edward J. Charlton, S.E. 7  
 Johnson & Phillips, Ltd. Trafford Pk., Manchester  
 Lancashire Dynamo & Motor Co., Ltd. 499, Eglinton St., Glasgow  
 Laurence, Scott, & Co., Ltd. Norwich  
 Malcolm & Allan, Ltd. 47, Broad St., Glasgow  
 Mavor & Coulson, Ltd. 47, Broad St., Glasgow

**Electric Motors—Continued.**

Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester  
 Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
 Purden Charles, Ltd. 262, Corporation St., Birmingham  
 Rees Roturbo Manufacturing Co., Ltd. Wolverhampton  
 Sandycroft, Ltd. Chester  
 Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., E.C.  
 Submersible Motors, Ltd. Southall, Middlesex  
 Consolidated Pneumatic Tool Co., Ltd. Egyptian House, 170, Piccadilly, W. 1  
 Gerrard & Co., Ltd. 15-19, Great Titchfield St., W. 1  
 Wagner & Co. St. Etienne, Loire, France  
 Westminster Tool & Electric Company 116 Putney Bridge Rd., Putney, S.W. 15  
 White, Jacoby & Co., Ltd. Bayham Place, Camden Town, N.W. 1

**Electrical Engineers.**

Allen W. H., Sons, & Co., Ltd. Bedford  
 Barry Henry, & Co., Ltd. Aberdeen  
 Beyer, Peacock & Co., Ltd. Manchester  
 Brecknell, Munro & Rogers, Ltd. Thrissell St., Bristol  
 British Insulated & Helsby Cables, Ltd. Prescott, Lancashire  
 British Thomson-Houston Co., Ltd. Rugby  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Consolidated Construction Co., Ltd. 9, Cloak Lane, Cannon St., E.C. 4  
 Drake & Gorham, Ltd. 66, Victoria St., S.W. 1  
 Electric Control, Ltd. Bridgeton, Glasgow  
 Electric & Ordnance Accessories Co., Ltd. Aston, Birmingham  
 Electromotors, Ltd. Openshaw, Manchester  
 English Electric Co., Ltd. Queen's House, Kingsway, W.C. 2  
 General Electric Co., Ltd. Queen Victoria St., E.C. 4  
 Hall J. P., & Co., Ltd. Oldham  
 Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
 Hayward-Tyler & Co., Ltd. 99, Queen Victoria St., E.C.  
 Higgs, Bros. Summer Hill St., Birmingham  
 Holmes J. H., & Co. Newcastle-upon-Tyne  
 Ignatic Electric Co., Ltd. 147, Queen Victoria St., E.C.  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, E.  
 Johnson & Phillips, Ltd. Charlton, S.E. 7  
 Lancashire Dynamo & Motor Co., Ltd. Trafford Park, Manchester  
 Laurence, Scott, & Co., Ltd. Norwich  
 Lyon Arthur, & Wrench, Ltd. 36, Victoria St., S.W. 1  
 Mavor & Coulson, Ltd. 47, Broad St., Glasgow  
 Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester  
 Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
 Rees Roturbo Manufacturing Co., Ltd. Wolverhampton  
 Royce, Ltd. Trafford Park, Manchester  
 Sandycroft, Ltd. Chester  
 Westminster Tool & Electric Company 116 Putney Bridge Rd., Putney, S.W. 15

**Electroplating, Lacquering, Bronzing, &c.****Elevators (Grain, Coal, &c.).—(See also Coal Handling Plant, and Conveyors & Elevators.)**

|                                             |                           |
|---------------------------------------------|---------------------------|
| Allen Edgar, & Co., Ltd.                    | Sheffield                 |
| Barry Henry, & Co., Ltd.                    | Aberdeen                  |
| Bennis Ed., & Co., Ltd.                     | Bolton                    |
| Coles H. J., Ltd.                           | London Crane Works, Derby |
| Conveyor & Elevator Co.                     | Accrington, Lancashire    |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.              |
| Fraser & Chalmers Engineering Works         | Erith, Kent               |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees          |
| Heenan & Froude, Ltd.                       | Worcester                 |
| Jeffrey Mfg. Co.                            | Columbus, Ohio, U.S.A.    |
| Marsden H. R., Ltd.                         | Soho Foundry, Leeds       |
| Pott, Cassels & Williamson                  | Motherwell, nr. Glasgow   |
| Priestman Bros., Ltd.                       | 28, Victoria St., S.W. 1  |
| Reddaway F., & Co., Ltd.                    | Pendleton, Manchester     |
| Smith F. L., & Co., Ltd.                    | 20, Essex St., W.C. 2     |
| Smulders A. F.                              | Schiedam, Holland         |

**Emery and Emery Cloth, &c.**

|                           |                              |
|---------------------------|------------------------------|
| Oakey, John, & Sons, Ltd. | Westminster Bridge Rd., S.B. |
|---------------------------|------------------------------|

**Emery Grinding & Polishing Machinery.—(See Grinding and Polishing Machinery.)****Emery Wheels.**

|                              |                                     |
|------------------------------|-------------------------------------|
| Carborundum Co., Ltd.        | Trafford Park, Manchester           |
| Churchill Chas., & Co., Ltd. | 9-15, Leonard St., E.C. 2           |
| Luke & Spencer, Ltd.         | Canal Engineering Works, Altrincham |
| Morton & Weaver.             | Cox St., Coventry                   |
| Rowland B. R., & Co., Ltd.   | Reddish, nr. Manchester             |
| Sterne L., & Co., Ltd.       | Crown Ironworks, Glasgow            |
| Tattersall A. A., & Co.      | Blackburn                           |

**Engine and Boiler Fittings.**

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Bailey Sir W. H., & Co., Ltd.                       | Salford, Manchester                 |
| Barclay Andrew, Sons & Co., Ltd.                    | Caledonia Works, Kilmarnock         |
| Bell's United Asbestos Co., Ltd.                    | 59½, Southwark St., S.B.            |
| Blakeborough J., & Sons, Ltd.                       | Bridgehouse, Yorks.                 |
| Blundell's London Copper & Brass Works (1910), Ltd. | West India Dock Road, Limehouse, E. |
| Clark George, & Sons (Hull), Ltd.                   | Waterhouse Lane, Hull               |
| Green & Boulding, Ltd.                              | 28, New Bridge St., E.C.            |
| Hopkinson J., & Co., Ltd.                           | Huddersfield                        |
| Lunken Company, Ltd.                                | 35, Great Dover St., S.B.           |
| Manning, Maxwell & Moore, Inc.                      | New York                            |
| McRobie John, & Sons                                | 94, Elliot St., Glasgow             |
| M'Neill C., Ltd.                                    | Kinning Park, Glasgow               |
| Morton & Weaver                                     | Cox St., Coventry                   |
| Pegler, Bros., & Co. (Glasgow), Ltd.                | Anderson, Glasgow                   |
| Piggott Thos., & Co., Ltd.                          | Springhill, Birmingham              |
| Royles Limited                                      | Irlam, nr. Manchester               |
| Russell John & Co., Ltd.                            | Birmingham                          |
| Smith Sydney, & Sons (Nottingham), Ltd.             | Nottingham                          |

**Engine and Boiler Fittings—Continued.**

|                             |                          |
|-----------------------------|--------------------------|
| Steven & Struthers          | Kelvinhaugh, Glasgow     |
| Stone J., & Co., Ltd.       | 14, Cockspur St., S.W. 1 |
| Tangyes Limited             | Birmingham               |
| Turnbull Alex., & Co., Ltd. | Bishopbriggs, Glasgow    |

**Engineers (Consulting and Inspecting).**

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| British Commercial Gas Association  | 47, Victor's St., S.W. 1             |
| Brownlie & Green, Ltd.              | Church St., Cheetham, Manchester     |
| Davis B. J.                         | Gt. Eastern Rd., Stratford, E.       |
| Maxted & Knott, Ltd.                | Burnett Avenue, Hull                 |
| Northern Consulting & Design Office | 67, Dale St., Liverpool              |
| Parker J. E.                        | P.O. Box 559, Pretoria, South Africa |
| Semple, Robert                      | 179, West George St., Glasgow        |
| Wilkin Tudor A.                     | 15, New Broad St., E.C. 2            |

**Engines (Air).**

|                               |                     |
|-------------------------------|---------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester |
|-------------------------------|---------------------|

**Engines (Blowing).—(See also Fans and Blowers and Ventilators.)**

|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| Adamson, Daniel, & Co., Ltd.              | Dukinfield                          |
| Davy Brothers, Ltd.                       | Sheffield                           |
| Drysdale & Co., Ltd.                      | Bon Accord Wks., Yoker, Glasgow, W. |
| Fraser & Chalmers Engineering Works       | Erith, Kent                         |
| Fullerton, Hodgart & Barclay, Ltd.        | Paisley, Scotland                   |
| Gwynnes Ltd.                              | Hammersmith Ironwks., W.            |
| Metropolitan-Vickers Electrical Co., Ltd. | Trafford Park, Manchester           |

**Engines (Gas).**

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Allen, W. H., Son & Co., Ltd.             | Bedford                       |
| Anderson-Grice Co., Ltd.                  | Carnoustie, Scotland          |
| Beardmore W., & Co., Ltd.                 | Glasgow                       |
| Browett, Lindley & Co., Ltd.              | Patricroft, Manchester        |
| Burmeister & Wain, Ltd.                   | Copenhagen, Denmark           |
| Cameron John, Ltd.                        | Salford, Manchester           |
| Campbell Gas Eng. Co., Ltd.               | Halifax, England              |
| Crossley Bros., Ltd.                      | Manchester                    |
| Davey, Paxman & Co., Ltd.                 | Colchester                    |
| Dudbridge Ironworks, Ltd.                 | Dudbridge, near Stroud        |
| Fielding & Platt, Ltd.                    | Atlas Works, Gloucester       |
| Gardner L., & Sons, Ltd.                  | Patricroft, Manchester        |
| Haalam Foundry & Engineering Co., Ltd.    | Derby                         |
| Hindley B. S., & Sons                     | 11, Queen Victoria St., E.C.  |
| John T. G., Ltd.                          | Holyhead Rd., Coventry        |
| Lillieshall Co., Ltd.                     | Oakengates, Shropshire        |
| Lister R. A., & Co., Ltd.                 | Dursley, Glos.                |
| Metropolitan-Vickers Electrical Co., Ltd. | Trafford Park, Manchester     |
| National Gas Engine Co., Ltd.             | Ashton-under-Lyne, Manchester |
| Premier Gas Engine Co., Ltd.              | Sandiacre, Nottingham         |
| Rendle, Blanchard & Co., Ltd.             | 5, Victoria St., S.W. 1       |
| Robson John (Shipley), Ltd.               | Shipley, Yorks.               |

**Engines (Gas)—Continued.**

|                                |                               |
|--------------------------------|-------------------------------|
| Ruston & Hornsby, Ltd.         | Lincoln                       |
| Smulders A. F. . . . .         | Schiedam, Holland             |
| Stewart Duncan, & Co., Ltd.    | London Rd. Ironworks, Glasgow |
| Sulzer Brothers . . . . .      | 31, Bedford Sq., W.C. 1       |
| Tangyes Limited . . . . .      | Birmingham                    |
| Thornycroft J. I., & Co., Ltd. | 10, Grosvenor Place, S.W. 1   |

**Engines (Locomotive).**

|                                                         |                                      |
|---------------------------------------------------------|--------------------------------------|
| American Steel Export Co.                               | Woolworth Building, New York, U.S.A. |
| Armstrong Sir W. G., }<br>Whitworth & Co., Ltd. . . . . | 8, Great George St., S.W. 1          |
| Avonside Engine Co., Ltd.                               | Bristol                              |
| Bagnall W. G., Ltd. . . . .                             | Stafford                             |
| Baldwin Locomotive Wks.                                 | 34, Victoria St., S.W.               |
| Barclay Andrew, Sons & Co., Ltd. . . . .                | Kilmarnock, N.B.                     |
| Beyer, Peacock & Co., Ltd.                              | Manchester                           |
| Fowler J., & Co. (Leeds), Ltd.                          | Leeds                                |
| Grant, Ritchie & Co., Ltd.                              | Kilmarnock                           |
| Hawthorn R. & W., Leslie & Co., Ltd. . . . .            | Newcastle-on-Tyne                    |
| Hudswell, Clarke & Co., Ltd.                            | Leeds                                |
| Hunslet Engine Co., Ltd. . . . .                        | Leeds                                |
| Manning, Wardle & Co., Ltd.                             | Boyne Engine Wks., Leeds             |
| Motor Rail & Tram Car Co.                               | Bedford                              |
| Peckett & Sons, Ltd. . . . .                            | Atlas Locomotive Works, Bristol      |
| Ruston & Hornsby, Ltd.                                  | Sheaf Ironworks, Lincoln             |
| Stephenson Robert, & Co., Ltd. . . . .                  | Darlington                           |
| Wonham, Bates & Goode, Inc.                             | 3, London Wall Buildings, E.C.       |
| Yorkshire Engine Co., Ltd.                              | 16, Finsbury Circus, E.C.            |

**Engines (Marine).**

|                                                          |                                         |
|----------------------------------------------------------|-----------------------------------------|
| Ailsa Shipbuilding Co., Ltd.                             | Troon, N.B.                             |
| Armstrong, Sir W. G., }<br>Whitworth & Co., Ltd. . . . . | 8, Great George St., S.W. 1             |
| Burmeister & Wain, Ltd.                                  | Copenhagen, Denmark                     |
| Campbell & Calderwood . . . . .                          | Soho Works, Paisley, Scotland           |
| Chambers John, Ltd. . . . .                              | Oulton Broad, Lowestoft                 |
| Chaplin Alex., & Co. . . . .                             | Govan, Glasgow                          |
| Cochran & Co. (Annan), Ltd.                              | Annan, N.B.                             |
| Day, Summers & Co., Ltd.                                 | Southampton                             |
| Doxford William, & Sons, Ltd. . . . .                    | Sunderland                              |
| Fawcett, Preston & Co., Ltd.                             | Liverpool                               |
| Fleming & Ferguson, Ltd.                                 | Paisley, N.B.                           |
| Hawthorn R. & W., Leslie & Co., Ltd. . . . .             | Newcastle-on-Tyne                       |
| Hayes Edward . . . . .                                   | Stony Stratford, Wolver-                |
| Lobnitz & Co., Ltd. . . . .                              | Renfrew, Scotland [ton                  |
| McKie & Baxter . . . . .                                 | Govan, Glasgow                          |
| Mumford A. G., Ltd. . . . .                              | Colchester                              |
| North-Eastern Marine Engineering Co., Ltd. . . . .       | Northumberland Works, Wallsend-on-Tyne  |
| Paul Matthew, & Co., Ltd.                                | Dumbarton                               |
| Plenty & Son, Ltd. . . . .                               | Newbury, Berks                          |
| Richardsons, Westgarth & Co., Ltd. . . . .               | Hartlepool Engine Wks., Hartlepool [gow |
| Ross & Duncan . . . . .                                  | Whitefield Works, Glas-                 |
| Rowan David, & Co. . . . .                               | 231, Elliott St., Glasgow               |
| Savery T. A., & Co., Ltd. . . . .                        | Birmingham                              |
| Schneider & Co. . . . .                                  | 30, Victoria St., S.W. 1                |

**Engines (Marine).—Continued.**

|                                                  |                                              |
|--------------------------------------------------|----------------------------------------------|
| Simons W., & Co., Ltd. . . . .                   | Renfrew, N.B.                                |
| Smit L., & Zoons . . . . .                       | Kinderdijk, Holland                          |
| Stewart Duncan, & Co., Ltd.                      | Glasgow                                      |
| Sulzer Brothers . . . . .                        | 31, Bedford Sq., W.C. 1                      |
| Sun Shipbuilding Co. . . . .                     | 1428 So. Penn Sq., Philadelphia, Pa., U.S.A. |
| Thornycroft J. I., & Co., Ltd.                   | Southampton                                  |
| Vickers Limited . . . . .                        | Barrow-in-Furness                            |
| Vickers-Petters, Ltd. . . . .                    | 73, Queen Victoria St., E.C. 4               |
| Vosper & Co., Ltd. . . . .                       | Portsmouth                                   |
| Wallsend Slipway & Engineering Co., Ltd. . . . . | Wallsend                                     |
| White J. Samuel, & Co., Ltd.                     | East Cowes, Isle of Wight                    |
| Yarrow & Co., Ltd. . . . .                       | Glasgow                                      |

**Engines (Oil).**

|                                                       |                                              |
|-------------------------------------------------------|----------------------------------------------|
| Agricultural & General Engineers, Ltd. . . . .        | Central House, Kingsway, W.C. 2              |
| Allen W.H., Son & Co., Ltd.                           | Bedford                                      |
| Armstrong Sir W. G., }<br>Whitworth Co., Ltd. . . . . | 8, Great George St., S.W. 1                  |
| Armstrong-Siddeley Motors, Ltd. . . . .               | Coventry                                     |
| Aster Engineering Co. (1913) Ltd. . . . .             | Wembley, Middlesex                           |
| Atlas Diesel Co., Ltd. . . . .                        | 33, Surrey St., W.C. 2                       |
| Beardmore W., & Co., Ltd.                             | Glasgow                                      |
| Belliss & Morcom, Ltd. . . . .                        | Ledsam St. Works, Birmingham                 |
| Bergius Launch & Engine Co., Ltd. . . . .             | 254, Dobbie's Loan, Glasgow                  |
| Blackstone & Co., Ltd. . . . .                        | Rutland Wks., Stamford                       |
| Broom & Wade, Ltd. . . . .                            | High Wycombe                                 |
| Burmeister & Wain, Ltd.                               | Copenhagen, Denmark                          |
| Campbell Gas Eng. Co., Ltd.                           | Halifax, England                             |
| Cole, Marchent & Morley, Ltd. . . . .                 | Bradford                                     |
| Consolidated Pneumatic Tool Co., Ltd. . . . .         | Egyptian House, 170, Piccadilly, W. 1        |
| Crossley Bros., Ltd. . . . .                          | Manchester                                   |
| Doxford William, & Sons, Ltd. . . . .                 | Sunderland                                   |
| Dudbridge Ironworks, Ltd.                             | Dudbridge, nr. Stroud                        |
| English Electric Co., Ltd.                            | Queen's House, Kingsway, W.C. 2              |
| Fielding & Platt, Ltd. . . . .                        | Gloucester                                   |
| Gardner L., & Sons, Ltd. . . . .                      | Patricroft, Manchester                       |
| Hamworthy Engineering Co., Ltd. . . . .               | 76, Victoria St., S.W. 1                     |
| Hardy & Padmore, Ltd. . . . .                         | Worcester                                    |
| Hick, Hargreaves & Co., Ltd. . . . .                  | Bolton                                       |
| John T. G., Ltd. . . . .                              | Holyhead Rd., Coventry                       |
| Lister, R. A., & Co., Ltd. . . . .                    | Dursley                                      |
| Maclaren Brothers, Ltd.                               | 24, St. Vincent Place, Gainsborough [Glasgow |
| Marshall, Sons & Co., Ltd.                            | Hazel Grove, near Stock-                     |
| Mirrlees, Bickerton & Day, Ltd. . . . .               | port                                         |
| Mirrlees Watson Co., Ltd.                             | Scotland St., Glasgow                        |
| National Gas Engine Co., Ltd.                         | Ashton-under-Lyne, Man-                      |
| Normand Augustin & . . . . .                          | 67, Rue du Perrey, Le Havre, France          |
| Perman & Co., Ltd. . . . .                            | 82 & 83, Fenchurch St., E.C. 3               |
| Plenty & Son, Ltd. . . . .                            | Newbury, Berkshire                           |
| Reader B., & Sons . . . . .                           | Phoenix Wks., Cremona St., Nottingham        |

**Engines (Oil)—Continued.**

|                                    |                                |
|------------------------------------|--------------------------------|
| Reavell & Co., Ltd.                | Ipswich                        |
| Rendle, Blanchard & Co., Ltd.      | 5, Victoria St., S.W. 1        |
| Robey & Co., Ltd.                  | Lincoln                        |
| Robson John (Shipley), Ltd.        | Shipley, Yorks.                |
| Ruston & Hornsby, Ltd.             | Lincoln and Grantham           |
| Schneider & Co.                    | 30, Victoria St., S.W. 1       |
| Siddeley-Deasy Motor Car Co., Ltd. | Coventry                       |
| Smulders A. F.                     | Schiedam, Holland              |
| Sulzer Brothers                    | 31, Bedford Sq., W.C. 1        |
| Tangyes Limited                    | Birmingham [S.W. 1]            |
| Thornycroft J. I., & Co., Ltd.     | 10, Grosvenor Place,           |
| Vickers-Petters, Ltd.              | 73, Queen Victoria St., E.C. 4 |
| Vosper & Co., Ltd.                 | Portsmouth                     |
| Westinghouse Brake Co., Ltd.       | 82, York Rd., King's Cross, N. |
| White J. Samuel, & Co., Ltd.       | East Cowes, Isle of Wight      |
| Wolsley Motors, Ltd.               | York St., Westminster, S.W.    |

**Engines (Petrol).**

|                                  |                                  |
|----------------------------------|----------------------------------|
| Armstrong Siddeley Motors, Ltd.  | Coventry                         |
| Belliss & Morcom, Ltd.           | Birmingham                       |
| Bergus Launch & Engine Co., Ltd. | 254, Dobbie's Loan, Glasgow      |
| Blackstone & Co., Ltd.           | Rutland Wks., Stamford           |
| Hardy & Padmore, Ltd.            | Worcester                        |
| John T. G., Ltd.                 | Holyhead Rd., Coventry           |
| Lister R. A., & Co., Ltd.        | Dursley                          |
| MacLaren Brothers, Ltd.          | 24, St. Vincent Place, [Glasgow] |
| Rendle, Blanchard & Co., Ltd.    | 5, Victoria St., S.W. 1          |
| Vosper & Co., Ltd.               | Portsmouth                       |

**Engines (Portable).**

|                                  |                             |
|----------------------------------|-----------------------------|
| Blackstone & Co., Ltd.           | Rutland Works, Stamford     |
| Davey, Paxman & Co., Ltd.        | Colchester                  |
| Garrett R., & Sons, Ltd.         | Leiston Works, Suffolk      |
| John T. G., Ltd.                 | Holyhead Rd., Coventry      |
| Marshall, Sons & Co., Ltd.       | Gainsborough                |
| Piggott Thos., & Co., Ltd.       | Springhill, Birmingham      |
| Ransomes, Sims & Jefferies, Ltd. | Ipswich                     |
| Robey & Co., Ltd.                | Lincoln                     |
| Ruston & Hornsby, Ltd.           | Lincoln and Grantham        |
| Smedley Bros., Ltd.              | Belper, Derbyshire          |
| Thornycroft J. I., & Co., Ltd.   | 10, Grosvenor Place, S.W. 1 |

**Engines (Pumping).**

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Bailey Sir W. H., & Co., Ltd.               | Salford, Manchester                      |
| Barclay Andrew, Sons, & Co., Ltd.           | Caledonia Wks., Kilmarnock, Scotland     |
| Berry Henry, & Co., Ltd.                    | Croydon Works, Leeds                     |
| Bever, Doring & Co., Ltd.                   | Bradford                                 |
| Caird & Rayner                              | 777, Commercial Rd., Limehouse, E. [Gow] |
| Carruthers J. H., & Co., Ltd.               | Polmadie Ironwks., Glasgow               |
| Clarke, Chapman & Co., Ltd.                 | Gateshead-on-Tyne                        |
| Davey, Paxman & Co., Ltd.                   | Colchester                               |
| Drysdale & Co., Ltd.                        | Bon Accord Wks., Yoker, [Glasgow, W.]    |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                             |
| Fleming & Ferguson, Ltd.                    | Paisley, N.B.                            |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley |

**Engines (Pumping).—Continued.**

|                                      |                                  |
|--------------------------------------|----------------------------------|
| Glenfield & Kennedy, Ltd.            | Kilmarnock, N.B.                 |
| Gwynnes, Ltd.                        | Hammersmith Ironwks., Leeds [W.] |
| Hathorn, Davey & Co., Ltd.           | Nottingham                       |
| Manlove, Allott & Co., Ltd.          | Crown Point Fndry, Leeds         |
| Musgrave Bros.                       | Denton Ironwks., Carlisle        |
| Pratchitt Bros.                      | Nine Elms Ironwks., Reading      |
| Pulsometer Engineering Co., Ltd.     | Reading                          |
| Rees Roturbo Manufacturing Co., Ltd. | Wolverhampton                    |
| Rice & Co. (Leeds), Ltd.             | Elland Rd., Leeds                |
| Tangyes Limited                      | Birmingham                       |
| Worthington - Simpson, Ltd.          | Queen's House, Kingsway, W.C. 2  |
| Yates & Thom, Ltd.                   | Canal Works, Blackburn           |

**Engines (Stationary).**

|                               |                                     |
|-------------------------------|-------------------------------------|
| Allen W. H., Son, & Co., Ltd. | Bedford                             |
| Alley & Macellan, Ltd.        | Sentinel Works, Glasgow             |
| Anderson Foundry Co., Ltd.    | 100, Cheapside St., Glasgow         |
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester                 |
| Belliss & Morcom, Ltd.        | Birmingham                          |
| Bever, Doring & Co., Ltd.     | Bowling Ironwks., Bradford          |
| Brotherhood P., Ltd.          | Peterborough.                       |
| Browett, Lindley & Co., Ltd.  | Patricroft, Manchester              |
| Chaplin Alex., & Co., Ltd.    | Govan, Glasgow                      |
| Clarke, Chapman & Co., Ltd.   | Gateshead-on-Tyne                   |
| Cole, Marchant & Morley, Ltd. | Bradford.                           |
| Davey, Paxman & Co., Ltd.     | Colchester                          |
| Davy Bros., Ltd.              | Sheffield                           |
| Donkin Co., Ltd. (The Bryan)  | Chesterfield                        |
| Douglas & Grant, Ltd.         | Kirkcaldy, N.B.                     |
| Drysdale & Co., Ltd.          | Bon Accord Wks., Yoker, Glasgow, W. |

|                                             |                                                         |
|---------------------------------------------|---------------------------------------------------------|
| East Ferry Road Engineering Works Co., Ltd. | Millwall, E.                                            |
| Fawcett, Preston & Co., Ltd.                | Liverpool                                               |
| Fowler J., & Co. (Leeds), Ltd.              | Leeds                                                   |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley                |
| Galloways, Ltd.                             | Manchester                                              |
| Garrett R., & Sons, Ltd.                    | Leiston Works, Suffolk                                  |
| Grantham Bolter & Crank Co., Ltd.           | Grantham [W.]                                           |
| Gwynnes, Ltd.                               | Hammersmith Ironwks., Scotland St. Engine Wks., Glasgow |
| Harvey Engineering Co., Ltd.                | Worcester                                               |
| Hathorn, Davey & Co., Ltd.                  | Leeds                                                   |
| Heenan & Froude, Ltd.                       | Worcester                                               |
| Hick, Hargreaves & Co., Ltd.                | Bolton                                                  |
| Hindley E. S., & Sons                       | 11, Queen Victoria St., E.C.                            |
| Howden James, & Co., Ltd.                   | Scotland St., Glasgow                                   |
| Lilleshall Co., Ltd.                        | Oakengates, Shropshire                                  |
| Manlove, Allott & Co., Ltd.                 | Nottingham                                              |
| Marshall, Sons & Co., Ltd.                  | Gainsborough                                            |
| Mirrlees Watson Co., Ltd.                   | Scotland St., Glasgow                                   |
| Musgrave & Co., Ltd.                        | St. Ann's Ironwks., Belfast                             |
| Parsons C. A., & Co., Ltd.                  | Newcastle-on-Tyne                                       |
| Paul Matthew & Co., Ltd.                    | Dumbarton                                               |
| Peckett & Sons, Ltd.                        | Atlas Eng. Works, Bristol                               |
| Ransome A., & Co., Ltd.                     | Newark-on-Trent                                         |
| Ransomes, Sims & Jefferies, Ltd.            | Ipswich                                                 |
| Reader B., & Sons                           | Phoenix Wks., Cremorne St., Nottingham                  |



**Engines (Stationary)—Continued.**

|                             |                                                  |
|-----------------------------|--------------------------------------------------|
| Reavell & Co., Ltd.         | .. Ipswich                                       |
| Robey & Co., Ltd.           | .. Lincoln                                       |
| Russell Geo., & Co., Ltd.   | .. Motherwell, nr. Glasgow                       |
| Ruston & Hornsby, Ltd.      | .. Grantham                                      |
| Sandycroft, Ltd.            | .. Chester                                       |
| Shanks Thomas, & Co.        | .. Johnstone, N.B.                               |
| Sisson W., & Co., Ltd.      | .. Gloucester                                    |
| Smedley Bros., Ltd.         | .. Belper, Derbyshire                            |
| Stewart Duncan, & Co., Ltd. | .. Glasgow                                       |
| Sulzer Bros.                | .. 31, Bedford Sq., W.C. 1                       |
| Sun Shipbuilding Co.        | .. 1428 So., Penn Sq., Philadelphia, Pa., U.S.A. |

|                                          |                                |
|------------------------------------------|--------------------------------|
| Sunderland Forge & Engineering Co., Ltd. | .. Pallion, Sunderland         |
| Tangyes Limited                          | .. Birmingham                  |
| Taylor & Challen, Ltd.                   | .. Birmingham                  |
| Thornycroft J. I., & Co., Ltd.           | .. 10, Grosvenor Place, S.W. 1 |
| Tullis D. & J., Ltd.                     | .. Glasgow                     |
| Walker Bros. (Wigan), Ltd.               | .. Pagefield Iron Works, Wigan |
| Yates & Thom, Ltd.                       | .. Canal Works, Blackburn      |

**Engines (Traction).**

|                                  |                                |
|----------------------------------|--------------------------------|
| Aveling & Porter, Ltd.           | .. Rochester                   |
| Avonside Engine Co., Ltd.        | .. Bristol                     |
| Clayton & Shuttleworth, Ltd.     | .. Lincoln                     |
| Davey, Paxman & Co., Ltd.        | .. Colchester                  |
| Fowler J., & Co. (Leeds), Ltd.   | .. Leeds                       |
| Garrett R., & Sons, Ltd.         | .. Leiston Works, Suffolk      |
| Marshall, Sons & Co., Ltd.       | .. Gainsborough                |
| Ransomes, Sims & Jefferies, Ltd. | .. Ipswich                     |
| Robey & Co., Ltd.                | .. Lincoln                     |
| Ruston & Hornsby, Ltd.           | .. Lincoln and Grantham        |
| Thornycroft J. I., & Co., Ltd.   | .. Basingstoke                 |
| Wolseley Motors, Ltd.            | .. York St., Westminster, S.W. |

**Engines (Winding).—(See also Haulage Plants.)**

|                                             |                                         |
|---------------------------------------------|-----------------------------------------|
| Barclay Andrew, Sons & Co., Ltd.            | .. Caledonia Wks., Kilmarnock, Scotland |
| Bever, Doring & Co., Ltd.                   | .. Bowling Ironworks, Bradford          |
| Carron Co.                                  | .. Carron, Stirlingshire                |
| Chaplin Alex., & Co., Ltd.                  | .. Govan, Glasgow                       |
| Clarke, Chapman & Co., Ltd.                 | .. Gateshead-on-Tyne                    |
| Davey, Paxman & Co., Ltd.                   | .. Colchester                           |
| East Ferry Road Engineering Works Co., Ltd. | .. Millwall, E.                         |
| Fawcett, Preston & Co., Ltd.                | .. Liverpool                            |
| Fraser & Chalmers Engineering Works         | .. Erith, Kent                          |
| Galloways, Ltd.                             | .. Manchester                           |
| Grant, Ritchie & Co., Ltd.                  | .. Kilmarnock                           |
| Heenan & Froude, Ltd.                       | .. Worcester                            |
| Lidgerwood Mfg. Co.                         | .. Friars House, New Broad St., E.C.    |
| Marshall, Sons & Co., Ltd.                  | .. Gainsborough                         |
| Napier Bros., Ltd.                          | .. 130, Hyde Park St., Glasgow, W.      |
| Pratchitt Bros.                             | .. Denton Ironworks, Carlisle           |
| Ransomes, Sims, & Jefferies, Ltd.           | .. Ipswich                              |
| Robey & Co., Ltd.                           | .. Lincoln                              |

**Engines (Winding)—Continued.**

|                            |                                |
|----------------------------|--------------------------------|
| Ruston & Hornsby, Ltd.     | .. Sheaf Ironworks, Lincoln    |
| Sandycroft, Ltd.           | .. Chester                     |
| Tangyes Limited            | .. Birmingham                  |
| Ukeshire Iron Works        | .. Newport, Mon.               |
| Walker Bros. (Wigan), Ltd. | .. Pagefield Iron Works, Wigan |
| Yates & Thom, Ltd.         | .. Canal Works, Blackburn      |

**Evaporators.—(See also Distilling (Water) Apparatus.)**

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| Blair, Campbell, & McLean, Ltd.            | .. Woodville St., Govan, Glasgow            |
| Caird & Rayner                             | .. 777, Commercial Rd., E.                  |
| Forth Shipbuilding & Engineering Co., Ltd. | .. Govan, Glasgow                           |
| Fullerton, Hodgart and Barclay, Ltd.       | .. Vulcan Foundry and Engine Works, Paisley |
| Harvey Engineering Co., Ltd.               | .. Scotland St. Engine Works, Glasgow       |
| Kirkaldy John, Ltd.                        | .. 101, Leadenhall St., E.C. 3              |
| Mirrlees Watson Co., Ltd.                  | .. Scotland St., Glasgow                    |
| Richardsons, Westgarth & Co., Ltd.         | .. Hartlepool                               |
| Royles, Ltd.                               | .. Irlam, nr. Manchester                    |
| Weir G. & J., Ltd.                         | .. Cathcart, Glasgow                        |

**Excavators.**

|                              |                                        |
|------------------------------|----------------------------------------|
| Bucyrus Co.                  | .. 13, Victoria St., Westminster, S.W. |
| Chaplin Alex., & Co., Ltd.   | .. Govan, Glasgow                      |
| Coles H. J., Ltd.            | .. London Crane Wks., Derby            |
| Fizee Ltd.                   | .. Haarlem, Holland                    |
| Fleming & Ferguson, Ltd.     | .. Paisley, N.B.                       |
| Lobnitz & Co., Ltd.          | .. Renfrew, Scotland                   |
| Priestman Bros., Ltd.        | .. 28, Victoria St., S.W. 1            |
| Rose, Downs & Thompson, Ltd. | .. Old Foundry, Hull                   |
| Rubery, Owen, & Co.          | .. Darlaston, South Staffs.            |
| Ruston & Hornsby, Ltd.       | .. Sheaf Ironworks, Lincoln            |
| Smith F. L., & Co., Ltd.     | .. 20, Essex St., W.C. 2               |
| Smulders A. F.               | .. Schiedam, Rotterdam, Holland        |
| Strachan & Henshaw, Ltd.     | .. Bristol                             |
| Western Wheeled Scraper Co.  | .. Aurora, Illinois, U.S.A.            |
| Westwood, Joseph & Co., Ltd. | .. Napier Yard, Millwall, E.           |
| Whitaker D.                  | .. 1, Union St., Leicester             |
| Whitakers (Engineers), Ltd.  | .. Horsforth, Leeds                    |

**Exhausters.—(See also Gas Exhausters.)**

|                                  |                                          |
|----------------------------------|------------------------------------------|
| Alldays & Onions, Ltd.           | .. Birmingham                            |
| British Vacuum Cleaner Co., Ltd. | .. Dept. 5/20, Parson's Green Lane, S.W. |
| Donkin Co., Ltd. (The Bryan)     | .. Chesterfield                          |
| Gwynnes, Ltd.                    | .. 81, Cannon Street, E.C.               |
| Standard Engineering Co., Ltd.   | .. Leicester                             |

**Expanded Metal.**

|                          |                                              |
|--------------------------|----------------------------------------------|
| Expanded Metal Co., Ltd. | .. York Mansion, York St., Westminster, S.W. |
|--------------------------|----------------------------------------------|

**Fans and Blowers.—(See also Engines—Blowing, and Ventilators.)**

Alldays & Onions, Ltd. .. Birmingham  
 Allen W.H. & Sons, & Co., Ltd. .. Bedford  
 Barclay Andrew, Sons & Co., Ltd. .. Caledonia Wks., Kilmar-  
 Co., Ltd. .. } nock, Scotland  
 Brotherhood P., Ltd. .. Peterborough  
 Buffalo Forge Co., Ltd. .. Buckingham Gate,  
 S.W. 1.

Churchill Chas., & Co., Ltd. 9 to 15, Leonard St., E.C.  
 Davidson & Co., Ltd. .. Srocco Engineering Wks.,  
 Belfast

Donkin Co., Ltd. (The Bryan) Chesterfield  
 Electric & Ordnance Acces-  
 sories Co., Ltd. .. Aston, Birmingham  
 Fraser & Chalmers  
 Engineering Works .. Erith, Kent  
 Gunther W., & Sons .. Central Works, Oldham  
 Gwynnes, Ltd. .. } Hammersmith Ironwks.,  
 W.

Heenan & Froude, Ltd. .. Worcester  
 Howden James, & Co. .. Scotland St., Glasgow  
 Keith James, & Blackman Co., Ltd. .. } 27, Farringdon Avenue,  
 E.C.

Murray, McVinnie & Co., Ltd. .. } Mavisbank Quay, Glas-  
 gow

Musgrave & Co., Ltd. .. Belfast  
 Parsons C. A., & Co., Ltd. .. Newcastle-on-Tyne  
 Paul Matthew, & Co., Ltd. Dumbarton

Standard Engineering Co., Ltd. .. Leicester  
 Stott, Oswald, Ltd. .. Birmingham

Sturtevant Engineering Co., Ltd. .. } 147, Queen Victoria St.,  
 E.C.  
 Westminster Tool & Electric Co. .. } 116 Putney Bridge Rd.,  
 Putney, S.W. 15

**Feed Check Valves (Combination).**

Green & Boulding, Ltd. .. 28, New Bridge St., E.C.  
 Hopkinson J., & Co., Ltd. .. Huddersfield  
 Weir G. & J., Ltd. .. Cathcart, Glasgow

**Feed Water Filters.—(See also Filtering Apparatus.)**

Carruthers J. H. & Co., Ltd. Glasgow  
 Griscom-Russell Co. .. 95, West St., New York,  
 U.S.A.

Harris Patent Feed-Water Filter (1910). Ltd. .. } 24, Grainger St. West,  
 Newcastle-on-Tyne  
 Ohio Body & Blower Co. .. } Cleveland, Ohio, U.S.A.

**Feed Water Heaters.**

Bailey Sir W.H. & Co., Ltd. Salford, Manchester  
 Caird & Rayner .. 777, Commercial Rd., E.  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Forth Shipbuilding & Engineering Co., Ltd. .. Govan, Glasgow  
 Griscom-Russell Co. .. 95, West St., New York,  
 U.S.A.

Hall J. P., & Sons .. Peterborough  
 Holden & Brook, Ltd. .. Manchester

North-Eastern Marine Engineering Co., Ltd. .. } Northumberland Works,  
 Wallsend-on-Tyne  
 Paterson Engineering Co., Ltd. .. } 11, Southampton Row,  
 W.C. 1

Royles, Ltd. .. Irlam, nr. Manchester  
 Tangyes, Ltd. .. Birmingham  
 Weir G. & J., Ltd. .. Cathcart, Glasgow

Worthington-Simpson, Ltd. Queen's House, Kings-  
 way, W.C. 2  
 Wright's Forge & Engineer-  
 ing Co., Ltd. .. } Tipton, Staffs.

**Feed Water Regulators.**

Mumford A. G., Ltd. .. Colchester  
 Thornycroft J. I. & Co., Ltd. Southamton  
 Warner Robert, & Co., } 14-16, Cockspur St.,  
 (Engineers), Ltd. .. } S.W. 1  
 White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight  
 Yarrow & Co., Ltd. .. Glasgow

**Fencing.**

Bayliss, Jones & Bayliss, Ltd. Wolverhampton  
 Rubery, Owen, & Co. .. Darlaston, South Staf-  
 fordshire

**Ferro Concrete.—(See Concrete—Reinforced.)****Files.**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Burys & Co., Ltd. .. Sheffield  
 Cammell Laird & Co., Ltd. Sheffield  
 Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Hadfields Limited. .. Hedia Works, Sheffield  
 Turton T., & Sons, Ltd. .. Sheaf Works, Sheffield

**Filtering Apparatus.—(See also Feed-water Filters.)**

Buhring's Patent Water Purifying Co. .. 2, Scrutton St., E.C. 2  
 Caird & Rayner .. 777, Commercial Rd., E.  
 Carruthers J. H. & Co., Ltd. Glasgow  
 Cockburns, Ltd. .. Cardonald, Glasgow  
 Griscom-Russell Co. .. 95, West St., New York,  
 U.S.A.

Harris Patent Feed Water Filter (1910), Ltd. .. 82, Victoria St., S.W.  
 Lipscombe, Freck., & Co. .. 84, Albert Buildings,  
 E.C. 4

Manlove, Allott & Co., Ltd. Nottingham  
 Paterson Engineering Co., Ltd. .. } 11, Southampton Row,  
 W.C. 1

Pulsometer Engineering Co., Ltd. .. } Nine Elms Ironworks,  
 Reading  
 Royles, Ltd. .. Irlam, nr. Manchester  
 Rubery, Owen, & Co. .. Darlaston, South Staffs  
 United Water Softeners, Ltd. Imperial House, Kings-  
 way, W.C. 2

Wells A. C., & Co. .. 102, Midland Rd., N.W.  
 Wright's Forge & Engineer-  
 ing Co., Ltd. .. } Tipton, Staffs.

**Filters (Air).**

Davidson & Co., Ltd. .. Belfast  
 Heenan & Froude, Ltd. .. Worcester  
 Premier Cooler & Engineer-  
 ing Co., Ltd. .. } Shalford, nr. Guildford,  
 Surrey  
 Princeps & Co. .. Sheffield

**Fire Bars.**

Barclay Andrew, Sons & Co., Ltd. .. } Caledonia Works, Kil-  
 marnock  
 Rose, Downs & Thompson, Ltd. .. } Old Foundry, Hull

**Fire Bricks.—(See Refractory Materials.)****Fire-Extinguishing Apparatus.**

Blakeborough J., & Sons, Ltd. .. Brighouse, Yorks.  
 British Fire Appliances Co., Ltd. .. 109, Victoria St., S.W. 1  
 Guest & Chalmers .. Rotherham

**Fire Extinguishing Apparatus—Continued.**

|                             |                                |
|-----------------------------|--------------------------------|
| Ham, Baker & Co., Ltd.      | Langley Green, Birmingham      |
| Merryweather & Sons, Ltd.   | 63, Long Acre, W.C.            |
| Pyrene Co., Ltd.            | 9, Grosvenor Gardens, S.W. 1   |
| Reddaway F., & Co., Ltd.    | Pendleton, Manchester          |
| Worthington - Simpson, Ltd. | Queen's House, Kingsway, W.C.2 |

**Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)****Forced and Induced Draught Apparatus.**

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Alldays & Onions, Ltd.                    | Birmingham                    |
| Bennis Ed., & Co., Ltd.                   | Bolton                        |
| Davidson & Co., Ltd.                      | Belfast                       |
| Davy Bros., Ltd.                          | Sheffield                     |
| Electric & Ordnance Accessories Co., Ltd. | Aston, Birmingham             |
| Heenan & Froude, Ltd.                     | Worcester                     |
| Howden James, & Co., Ltd.                 | Scotland St., Glasgow         |
| Keith James, & Blackman Co., Ltd.         | 27, Farringdon Av., E.C.      |
| Mechans Limited                           | Glasgow                       |
| Meldrums, Ltd.                            | Timperley, nr. Manchester     |
| Musgrave & Co., Ltd.                      | Belfast                       |
| Standard Engineering Co., Ltd.            | Leicester                     |
| Sturtevant Engineering Co., Ltd.          | 147, Queen Victoria St., B.C. |
| Utting S.                                 | 82, Victoria St., S.W. 1      |

**Forges (Portable).**

|                                  |                               |
|----------------------------------|-------------------------------|
| Standard Engineering Co., Ltd.   | Leicester                     |
| Sturtevant Engineering Co., Ltd. | 147, Queen Victoria St., B.C. |

**Forging Machines and Plant.**

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Berry Henry, & Co., Ltd.        | Croydon Works, Hunslet, Coventry (Leeds) |
| Brett's Patent Lifter Co., Ltd. |                                          |
| Davis & Primrose, Ltd.          | Bangor Rd., Leith                        |
| Davy Bros., Ltd.                | Sheffield                                |
| Player W. & J.                  | Birmingham                               |
| Rice & Co. (Leeds), Ltd.        | Elland Rd., Leeds                        |
| Taylor & Challen, Ltd.          | Birmingham                               |

**Forging Presses.—(See also Hydraulic Presses.)**

|                             |                                          |
|-----------------------------|------------------------------------------|
| Berry Henry, & Co., Ltd.    | Croydon Works, Hunslet, Coventry (Leeds) |
| Davy Bros., Ltd.            | Sheffield                                |
| Fielding & Platt, Ltd.      | Gloucester                               |
| Hollings & Guest, Ltd.      | Thimble Mill Lane, Birmingham            |
| Rice & Co. (Leeds), Ltd.    | Elland Rd., Leeds                        |
| Stewart Duncan, & Co., Ltd. | London Rd. Ironworks, Glasgow            |

**Forgings (Brass, Bronze, Copper, &c.).**

|                       |                             |
|-----------------------|-----------------------------|
| Delta Metal Co., Ltd. | East Greenwich, S.E.        |
| McKechie Bros., Ltd.  | Rotton Park St., Birmingham |
| Weir G. & J., Ltd.    | Cathcart, Glasgow.          |

**Forgings (Drop).**

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Albion Drop Forgings Co., Ltd.              | Foleshill, Coventry                       |
| Armstrong, Stevens & Son, Ltd.              | Whitall St., Birmingham                   |
| Burton, Delingpole & Co.                    | Moseley St., Birmingham                   |
| Clayton & Shuttlesworth, Ltd.               | Lincoln                                   |
| Coventry Stamping Co., Ltd.                 | Holbrooks Lane, Coventry                  |
| Electro-Mechanical Brake Co., Ltd.          | Eagle Wks., West Bromwich                 |
| Garrington John, & Sons, Ltd.               | Darlaston, Staffs.                        |
| Gartsherrie Engineering & Forge Co.         | 50, Wellington St., Glasgow               |
| Head, Wrightson & Co., Ltd.                 | Thornaby-on-Tees                          |
| Horton & Son, Ltd.                          | Alma Works, Darlaston.                    |
| Hurst, Nelson & Co., Ltd.                   | Motherwell, N.B.                          |
| Keay E. C. & J., Ltd.                       | Corporation St., Birmingham               |
| McNeil Charles, Ltd.                        | Glasgow                                   |
| Scottish Stamping and Engineering Co., Ltd. | Ayr, Scotland                             |
| Smethwick Stamping Co.                      | Bridge St., Smethwick, Sheffield [Staffs] |
| Vickers Limited                             | Darlaston                                 |
| Wiley James, & Sons, Ltd.                   | 91, Richard St., Brooklyn, N.Y., U.S.A.   |
| Williams J. H., & Co.                       |                                           |

**Forgings (Iron and Steel).**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Armstrong Sir W. G., Whitworth & Co., Ltd. | 8, Great George St., S.W. 1            |
| Barr, Thomson & Co., Ltd.                  | Kilmarnock, Scotland                   |
| Beardmore Wm., & Co., Ltd.                 | Parkhead Ironworks, Glasgow            |
| Bessemer Hy., & Co., Ltd.                  | Sheffield                              |
| Brown Bayley's Steel Works, Ltd.           | Sheffield                              |
| Brown John, & Co., Ltd.                    | Sheffield                              |
| Cammell Laird & Co., Ltd.                  | Sheffield                              |
| Carron Co.                                 | Carron, Stirlingshire                  |
| Clarke's Crank & Forge Co., Ltd.           | Lincoln                                |
| Clayton & Shuttlesworth, Ltd.              | Lincoln                                |
| Colville David, & Sons, Ltd.               | Motherwell, nr. Glasgow                |
| Darlington Forge, Ltd.                     | Albert Hill, Darlington                |
| Dennystown Forge Co.                       | Dumbarton                              |
| Electro Mechanical Brake Co., Ltd.         | Eagle Wks., West Bromwich              |
| Fairley James, & Sons                      | Shadwell St., Birmingham               |
| Fife Forge Co., Ltd.                       | Kirkcaldy, Scotland                    |
| Firth Thos., & Sons, Ltd.                  | Norfolk Works, Sheffield               |
| Hadfields Limited                          | Hecla Works, Sheffield                 |
| Hawthorn R. & W., Leslie & Co., Ltd.       | Newcastle-on-Tyne                      |
| Hingley, N., & Sons, Ltd.                  | Netherton Iron Works, Dudley           |
| Holding John, & Co., Ltd.                  | Sheffield                              |
| Hurst, Nelson & Co., Ltd.                  | Motherwell, N.B.                       |
| Kirkstall Forge Co., Ltd.                  | Leeds                                  |
| Leeds Forge Co., Ltd.                      | Leeds                                  |
| McNeil Charles, Ltd.                       | Glasgow                                |
| Midland Railway Carriage & Wagon Co., Ltd. | Midland Works, Birmingham              |
| North-Eastern Marine Engineering Co., Ltd. | Northumberland Works, Wallsend-on-Tyne |

**Forgings (Iron and Steel).—Continued.**

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Projectile & Engineering Co., Ltd. | New Rd., S.W. 8                     |
| Richards Edwin, & Sons..           | Portway Wks., Wednesbury            |
| Somers, Walter, Ltd.               | Halesowen [Glasgow                  |
| Steel Co. of Scotland, Ltd.        | 23, Royal Exchange Sq., Southampton |
| Thornycroft J. L. & Co., Ltd.      | Newport, Mon.                       |
| Uxside Iron Works ..               | Sheffield                           |
| Vickers Limited ..                 | Saltnay, near Chester               |
| Wood, Henry & Co., Ltd.            | Hill Top, West Bromwich             |
| Wyld Harry W. ..                   |                                     |

**Forgings (Non-Ferrous).**

|                                    |                        |
|------------------------------------|------------------------|
| Horton & Son, Ltd.                 | Alma Works, Darlaston. |
| Projectile & Engineering Co., Ltd. | New Rd., S.W. 8        |
| Showell, E., & Sons, Ltd.          | Stirchley, Birmingham  |

**Foundry Plant.—(See also Crucibles, Cupolas, Ladles, Moulding Machines, and Sand Blast Machines.)**

|                                |                                |
|--------------------------------|--------------------------------|
| Alldays & Onions, Ltd.         | Birmingham                     |
| Eurmeister & Wain, Ltd.        | Copenhagen, Denmark            |
| Constructional Engineering Co. | Charles Henry St., Birmingham  |
| McNeil Charles, Ltd.           | Glasgow                        |
| Robson E. Capper & Co., Ltd.   | 1, North Rd., Darlington       |
| Wonham, Bates & Goode, Inc.    | 3, London Wall Buildings, E.C. |

**Furnaces for Destroying Refuse.—(See Disinfectors and Destructors.)****Furnaces and Furnace Fittings.**

|                                          |                                        |
|------------------------------------------|----------------------------------------|
| Alldays & Onions, Ltd.                   | Birmingham                             |
| Beardmore W. & Co., Ltd.                 | Glasgow                                |
| Beunis Ed., & Co., Ltd.                  | Bolton                                 |
| Brett's Patent Lifter Co., Ltd.          | Coventry                               |
| Brown John, & Co., Ltd.                  | Sheffield                              |
| Churchill Chas., & Co., Ltd.             | 9 to 15, Leonard St., E.C.             |
| Dowson & Mason Gas Plant Co., Ltd.       | Levenshulme, Manchester                |
| Electro-Metals, Ltd.                     | Imperial Buildings, 56, Kingsway, W.C. |
| Gibbons Bros., Ltd.                      | Dudley, Worc.                          |
| Howden James, & Co., Ltd.                | Scotland St., Glasgow                  |
| Leeds Forge Co., Ltd.                    | Leeds                                  |
| Meldrums, Ltd.                           | Timperley, nr. Manchester              |
| Piggott Thos., & Co., Ltd.               | Birmingham                             |
| Richmond Gas Stove & Meter Co., Ltd.     | Academy St., Warrington                |
| Wallsend Slipway & Engineering Co., Ltd. | Wallsend                               |
| Watson T. H., & Co. (Sheffield), Ltd.    | Neepsend, Sheffield                    |
| Wincott, G. P., Ltd.                     | 180, Attercliffe Rd., Sheffield        |

**Furnaces (Gas and Oil Heated).**

|                                      |                                |
|--------------------------------------|--------------------------------|
| Alldays & Onions, Ltd.               | Birmingham                     |
| Incandescent Heat Co., Ltd.          | Smethwick, Birmingham          |
| Power Gas Corporation, Ltd.          | Stockton-on-Tees               |
| Richmond Gas Stove & Meter Co., Ltd. | Academy St., Warrington        |
| Wallwin Co.                          | Salisbury Ironworks, Warwick   |
| Wincott, G. P., Ltd.                 | 180 Attercliffe Rd., Sheffield |

**Furnaces (Hardening).**

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Churchill C., & Co., Ltd.            | 9-15, Leonard St., E.C.         |
| Gibbons Bros. Ltd.                   | Dudley, Worc.                   |
| Incandescent Heat Co., Ltd.          | Smethwick, Birmingham           |
| Power Gas Corporation, Ltd.          | Stockton-on-Tees                |
| Richmond Gas Stove & Meter Co., Ltd. | Academy St., Warrington         |
| Wincott G. P., Ltd.                  | 180, Attercliffe Rd., Sheffield |
| Wright John, & Co.                   | Essex Wks., Aston, Birmingham   |

**Furniture and Fittings (Metal, &c.).**

|                     |                      |
|---------------------|----------------------|
| Gibbons, James      | Wolverhampton        |
| Howie J. & R., Ltd. | Hartford, Kilmarnock |

**Fusible Plugs.**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Lunken Co., Ltd.                                | 35, Great Dover St., S.E.        |
| National Boiler and General Insurance Co., Ltd. | St. Mary's Parsonage, Manchester |

**Galvanised Ironwork.**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Ash Joseph, & Son                  | Rea St. South, Birm'gh'm                  |
| Baldwins, Ltd.                     | 3, St. Helen's Place, E.C.                |
| Braby Fred., & Co., Ltd.           | Euston Rd., N.W.                          |
| Harvey G. A., & Co. (London), Ltd. | Greenwich Metal Works, Woolwich Rd., S.E. |
| Ramsday & Marshall, Ltd.           | Birmingham                                |

**Galvanisers.**

|                                    |                                           |
|------------------------------------|-------------------------------------------|
| Ash Joseph, & Son                  | Rea St. South, Birm'gh'm                  |
| Baldwins, Ltd.                     | 3, St. Helen's Pl., E.C.                  |
| Braby Fred., & Co., Ltd.           | Euston Rd., N.W.                          |
| Harvey G. A., & Co. (London), Ltd. | Greenwich Metal Works, Woolwich Rd., S.E. |

**Galvanizing.—(Plant for).**

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Thompson Bros. (Bilston), Ltd. | Bradley Engineering and Boiler Works, Bilston |
|--------------------------------|-----------------------------------------------|

**Gas Compressors (High Pressure).**

|                        |                              |
|------------------------|------------------------------|
| Belliss & Morcom, Ltd. | Ledsam St. Works, Birmingham |
| Seagers Limited        | Dartford, Kent               |

**Gas Cylinders.**

|                                    |                 |
|------------------------------------|-----------------|
| Chesterfield Tube Co., Ltd.        | Chesterfield    |
| Projectile & Engineering Co., Ltd. | New Rd., S.W. 8 |

**Gas Engines.—(See Engines, Gas.)****Gas Exhausters.—(See also Exhausters.)**

|                              |                               |
|------------------------------|-------------------------------|
| Allen W. H. Sons & Co., Ltd. | Bedford                       |
| Donkin Co., Ltd. (The Bryan) | Chesterfield                  |
| Gwynnes, Ltd.                | 81, Cannon St., E.C.          |
| Sturtevant Eng. Co., Ltd.    | 147, Queen Victoria St., E.C. |

**Gas Producers.**

|                               |                      |
|-------------------------------|----------------------|
| Anderson-Grice Co., Ltd.      | Carnoustie, Scotland |
| Bellamy John, Ltd.            | Millwall, E.         |
| Cameron John, Ltd.            | Salford, Manchester  |
| Campbell Gas Engine Co., Ltd. | Halifax, England     |
| Clayton Son, & Co., Ltd.      | Hunslet, Leeds       |
| Crossley Bros., Ltd.          | Openshaw, Manchester |
| Daniels T. H. & J., Ltd.      | Stroud, Glos.        |
| Davey, Paxman & Co., Ltd.     | Colchester           |

**Gas Producers—Continued.**

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| <b>Dowson &amp; Mason Gas Plant Co., Ltd.</b> .. | Levenshulme, Manchester |
| <b>Fielding &amp; Platt, Ltd.</b> ..             | Gloucester              |
| <b>Humphreys &amp; Glasgow, Ltd.</b> ..          | 38, Victoria St., S.W.  |
| <b>Power Gas Corporation, Ltd.</b> ..            | Stockton-on-Tees        |
| <b>Robson John (Shipley), Ltd.</b> ..            | Shipley, Yorks          |
| <b>Ruston &amp; Hornsby, Ltd.</b> ..             | Lincoln and Grantham    |
| <b>Stewart Duncan, &amp; Co., Ltd.</b> ..        | London Rd. Ironworks,   |
| <b>Tangyes Limited</b> ..                        | Birmingham [Glasgow     |
| <b>Wincott G. P., Ltd.</b> ..                    | 180, Attercliffe Rd.,   |
|                                                  | Sheffield               |

**Gas Works (Plant for).—(See also Coke Rams, and Exhausters.)**

|                                                  |                               |
|--------------------------------------------------|-------------------------------|
| <b>Ashmore, Benson, Pease &amp; Co., Ltd.</b> .. | Stockton-on-Tees              |
| <b>Clarke, Chapman &amp; Co., Ltd.</b> ..        | Gateshead-on-Tyne             |
| <b>Clayton Son, &amp; Co., Ltd.</b> ..           | Hunslet, Leeds                |
| <b>Donkin Co., Ltd. (The Bryan)</b> ..           | Chestfield                    |
| <b>Head, Wrightson &amp; Co., Ltd.</b> ..        | Thornaby-on-Tees              |
| <b>Jenkins, W. J., &amp; Co., Ltd.</b> ..        | Beehive Works, Retford        |
| <b>Low Temperature Carbonisation, Ltd.</b> ..    | 14 & 16, Cockspur St., S.W. 1 |
| <b>Piggott Thos., &amp; Co., Ltd.</b> ..         | Springhill, Birmingham        |

**Gases (Oxygen, &c.).**

|                                     |                          |
|-------------------------------------|--------------------------|
| <b>Allen-Liversidge, Ltd.</b> ..    | 106, Victoria St., S.W.  |
| <b>British Oxygen Co., Ltd.</b> ..  | Elverton St., S.W.       |
| <b>Integral Oxygen Co., Ltd.</b> .. | 38, Victoria St., S.W. 1 |

**Gases (Plant for Producing).**

|                                                           |                            |
|-----------------------------------------------------------|----------------------------|
| <b>Power Gas Corporation, Ltd.</b> ..                     | Stockton-on-Tees           |
| <b>Sparklets &amp; General Manufacturing Co., Ltd.</b> .. | Angel Rd., Edmonton, N. 18 |

**Gauge Glasses.**

|                                          |                           |
|------------------------------------------|---------------------------|
| <b>Butterworth Bros., Ltd.</b> ..        | Manchester                |
| <b>Lunken Co., Ltd.</b> ..               | 35, Great Dover St., S.E. |
| <b>Tomey Joseph, &amp; Sons, Ltd.</b> .. | Aston, Birmingham         |

**Gauges (Pressure, Vacuum and Hydraulic).**

|                                              |                            |
|----------------------------------------------|----------------------------|
| <b>Bailey Sir W. H., &amp; Co., Ltd.</b> ..  | Salford, Manchester        |
| <b>Budenberg Gauge Co., Ltd.</b> ..          | Broadheath, nr. Manchester |
| <b>Dobbie, McInnes, Ltd.</b> ..              | 57, Bothwell St., Glasgow  |
| <b>Hannan &amp; Buchanan</b> ..              | 75, Robertson St. Glasgow  |
| <b>Hopkinson J., &amp; Co., Ltd.</b> ..      | Huddersfield [Glasgow      |
| <b>Lunken Co., Ltd.</b> ..                   | 35, Great Dover St., S.E.  |
| <b>Manning, Maxwell &amp; Moore, Inc.</b> .. | New York                   |
| <b>Negretti &amp; Zambra</b> ..              | 38, Holborn Viaduct, E.C.  |
| <b>Precision Gauges Ltd.</b> ..              | Wrentham St., Birmingham   |

**Gear Cutters.**

|                                                       |                                      |
|-------------------------------------------------------|--------------------------------------|
| <b>British Insulated &amp; Helsby Cables, Ltd.</b> .. | Prescot, Lancashire                  |
| <b>Campbells &amp; Hunter, Ltd.</b> ..                | Dolphin Foundry, Leeds               |
| <b>Lang John, &amp; Sons</b> ..                       | Johnstone, nr. Glasgow               |
| <b>Mikron, Ltd.</b> ..                                | Madretsch, Bienne, Switzerland       |
| <b>Reay Gearworks, Ltd.</b> ..                        | Gateshead-on-Tyne                    |
| <b>Reid Gear Co.</b> ..                               | Linwood, nr. Paisley                 |
| <b>Tasker's Engineering Co., Ltd.</b> ..              | Sheffield                            |
| <b>Wallwork Henry, &amp; Co., Ltd.</b> ..             | Manchester                           |
| <b>Wrigley R. G., &amp; Co., Ltd.</b> ..              | Foundry Lane Works, Soho, Birmingham |

**Gearing.—(See Wheels—Geared.)****Gearing (Speed Reducing).**

|                                           |                                |
|-------------------------------------------|--------------------------------|
| <b>Brown David, &amp; Sons</b> ..         | Park Works, Hudders-           |
| <b>(Huddersfield), Ltd.</b> ..            | field                          |
| <b>Citroën Gear Co., Ltd.</b> ..          | 27, Queen Victoria St., E.C. 4 |
| <b>De Laval Steam Turbine Co.</b> ..      | 150, Southampton Row, W.C.     |
| <b>Reid Gear Co.</b> ..                   | Linwood, nr. Paisley           |
| <b>Variable Speed Gear, Ltd.</b> ..       | Broadway Court, S.W. 1         |
| <b>Wallwork Henry, &amp; Co., Ltd.</b> .. | Manchester                     |

**Gears (Rawhide, &c.).**

|                                             |                   |
|---------------------------------------------|-------------------|
| <b>Angus George, &amp; Co., Ltd.</b> ..     | Newcastle-on-Tyne |
| <b>British-Thomson Houston Co., Ltd.</b> .. | Rugby             |
| <b>Reay Gearworks, Ltd.</b> ..              | Gateshead-on-Tyne |
| <b>Wallwork Henry, &amp; Co. Ltd.</b> ..    | Manchester        |

**Girders.**

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| <b>Arrol Sir William, &amp; Co., Ltd.</b> .. | Dalmarnock Ironworks, Bridgeton, Glasgow |
| <b>Booth John, &amp; Sons</b> ..             | Bolton                                   |
| <b>Clyde Structural Iron Co., Ltd.</b> ..    | Clydeside Ironworks, Scotstoun, Glasgow  |
| <b>Heenan &amp; Froude, Ltd.</b> ..          | Newton Heath Ironworks, nr. Manchester   |
| <b>Mechans Limited</b> ..                    | Glasgow                                  |
| <b>Piggott Thos., &amp; Co., Ltd.</b> ..     | Springhill, Birmingham                   |

**Glazing.**

|                                          |                                |
|------------------------------------------|--------------------------------|
| <b>Grover &amp; Co., Ltd.</b> ..         | Carpenter's Rd., Stratford, E. |
| <b>Hope Henry, &amp; Sons, Ltd.</b> ..   | Smethwick, Birmingham          |
| <b>Triplex Safety Glass Co., Ltd.</b> .. | 1, Albemarle St., W.           |

**Gold Crushing and Amalgamating Machinery.**

|                                         |                        |
|-----------------------------------------|------------------------|
| <b>Davey, Paxman &amp; Co., Ltd.</b> .. | Colchester             |
| <b>Hadfields Limited</b> ..             | Hecla Works, Sheffield |
| <b>Marsden H. R., Ltd.</b> ..           | Soho Foundry, Leeds    |
| <b>Sandycroft, Ltd.</b> ..              | Chester                |

**Gold Dredgers.**

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>Bucyrus Co.</b> ..                | 13, Victoria St., S.W. 1 |
| <b>Lobnitz &amp; Co., Ltd.</b> ..    | Renfrew, Scotland        |
| <b>Simons W., &amp; Co., Ltd.</b> .. | Renfrew, Scotland        |

**Governors (Engine).**

|                                            |                                  |
|--------------------------------------------|----------------------------------|
| <b>Boving &amp; Co., Ltd.</b> ..           | 56, Kingsway, W.C. 2             |
| <b>Escher, Wyss &amp; Co.</b> ..           | 100, Victoria St., S.W.          |
| <b>Hartnell Wilson, &amp; Co., Ltd.</b> .. | Volt Works, Kirkstall Rd., Leeds |

**Hollingdrake H., & Sons, Ltd.**

|                                          |                       |
|------------------------------------------|-----------------------|
| <b>Mason Regulator Co.</b> ..            | Stockport             |
| <b>Newton, Macnab &amp; Mitchell</b> ..  | Boston, Mass. U.S.A.  |
| <b>Pollock, Macnab &amp; Highgate</b> .. | Dudley Hill, Bradford |
| <b>Tangyes Limited</b> ..                | Shettleston, Glasgow  |
|                                          | Birmingham            |

**Grabs.**

|                                            |                           |
|--------------------------------------------|---------------------------|
| <b>Priestman Bros., Ltd.</b> ..            | Holderness Foundry, Hull  |
| <b>Westwood Joseph, &amp; Co., Ltd.</b> .. | Napier Yard, Millwall, E. |
| <b>Wilson John H., &amp; Co.</b> ..        | Dock Rd., Birkenhead      |

**Graphite (Lubricating, &c.).**

Everitt & Co., Ltd. .. 40, Chapel St., Liverpool  
 Graphite Products, Ltd. .. 218-220, Queen's Rd., Batterssea, S.W.8

**Grinding Mills.—(See also Disintegrators.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Fletcher George, & Co., Ltd. .. Litchurch, Derby  
 Hadfields Limited. .. Hecla Works, Sheffield  
 Hardy & Padmore, Ltd. .. Worcester  
 Marsden H. R., Ltd. .. Soho Foundry, Leeds  
 Marshall, Sons & Co., Ltd. .. Gainsborough  
 Patent Lightning Crusher } 14a, Rosebery Ave., Gray's  
 Co., Ltd. .. } Inn Rd., E.C.  
 Smidth, F. L., & Co., Ltd. .. 20, Essex St., W.C. 2  
 Wood Hugh, & Co., Ltd. .. 65, Fenchurch St., E.C.

**Grinding and Polishing Machinery.**

Beyer, Peacock & Co., Ltd. .. Manchester  
 Carborundum Co., Ltd. .. Trafford Park, Manchester  
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W.1  
 Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., S.W. 1  
 Jones A. A., & Shipman, Ltd. .. East Park Rd., Leicester  
 Lash Robert H. .. 29-31, Portugal St., W.C. 2  
 Luke & Spencer, Ltd. .. Canal Eng. Works, Altrincham  
 Morton & Weaver. .. Cox St., Coventry  
 Muir Wm., & Co., Ltd. .. Sherbourne St., Manchester  
 Purden Charles, Ltd. .. 262, Corporation St., Birmingham  
 Rowland B. R., & Co., Ltd. .. Reddish, nr. Manchester  
 Selson Engineering Co., Ltd. .. 85, Queen Victoria St., E.C.  
 Sterne L., & Co. Ltd. .. Crown Ironwks., Glasgow  
 Universal Machinery Corporation, Ltd. .. 326, Old St. (Shoreditch), E.C.  
 Ward H. W., & Co., Ltd. .. Lionel St., Birmingham  
 Wisconsin Electric Co. .. Racine, Wisconsin, U.S.A.

**Grinding and Polishing Wheels.—(See Emery Wheels.)****Grindstones.**

Tasker's Engineering Co., Ltd. .. Sheffield

**Gunpowder and Gun-Cotton Machinery.**

Taylor & Challen, Ltd. .. Birmingham

**Guns and Gun Forgings.**

Brown John, & Co., Ltd. .. Sheffield  
 Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Vickers Limited .. Sheffield

**Gyroscopes.****Hammers (Drop).**

Brett's Patent Lifter Co., Ltd. .. Coventry  
 Massey B. & S., Ltd. .. Openshaw, Manchester  
 Platt Samuel, Ltd. .. Wednesbury

**Hammers (Power).—(See also Steam Hammers.)**

Alldays & Onions, Ltd. .. Birmingham  
 Bristol Pneumatic Tools, Ltd. .. 140, Victoria St., Bristol  
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W. 1  
 Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., Westminster, S.W.  
 Ingersoll-Rand Co. .. 165, Qn. Victoria St., E.C.  
 Massey B. & S., Ltd. .. Openshaw, Manchester  
 Player W. & J. .. Birmingham  
 Walber W. A., & Co. .. 38, Victoria St., S.W.

**Hammers (Steam).—(See Steam Hammers.)****Handles (Tool).**

Dickie Geo. & Son .. Chester St., Birkenhead

**Haulage Plants.—(See also Engines—Winding.)**

Barclay Andrew, Sons & Co., Ltd. .. Caledonia Wks., Kilmarnock, Scotland  
 British Electric Plant Co., Ltd. .. 66, Carrick St., Glasgow  
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.  
 Carron Co. .. Carron, Stirlingshire  
 Grant, Ritchie & Co., Ltd. .. Kilmarnock  
 Heenan & Froude, Ltd. .. Worcester  
 Higginbottom & Mannock, Ltd. .. Crown Ironworks, West Gorton, Manchester  
 Lidgerwood Manufacturing Co. .. Friars House, New Broad St., E.C.  
 Marshall, Sons, & Co., Ltd. .. Gainsborough  
 Napier Bros., Ltd. .. 130, Hyde Park St., Glasgow, W.  
 Pickering, Ltd. .. Stockton-on-Tees  
 Pratchitt Bros. .. Denton Ironworks, Carlisle  
 Robey & Co., Ltd. .. Lincoln  
 Ruston & Hornsby, Ltd. .. Sheaf Ironworks, Lincoln  
 Uskside Iron Works .. Newport, Mon.  
 Walker Bros. (Wigan), Ltd. .. Pagefield Iron Works, Wigan  
 Yates & Thom, Ltd. .. Canal Works, Blackburn

**Heating Apparatus.**

Brightside Foundry & Engineering Co., Ltd. .. Sheffield  
 Buffalo Forge Co., Ltd. .. Buckingham Gate, S.W. 1  
 Davidson & Co., Ltd. .. Belfast  
 Horne Engineering Co. .. St. Peters Lane, Glasgow  
 Keith James, & Blackman Co., Ltd. .. 27, Farrington Avenue, E.C.  
 Musgrave & Co., Ltd. .. Belfast  
 Royles, Ltd. .. Irlam, nr. Manchester  
 Standard Engineering Co., Ltd. .. Leicester  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.  
 Thermotank Co. .. 55, West Regent St., Glasgow  
 Tullis D. & J., Ltd. .. Kilbowie Ironworks, nr. Glasgow  
 Westinghouse Brake Co., Ltd. .. 82, York Rd., N.  
 Wright's Forge and Eng. Co., Ltd. .. Tipton, Staffs

**Hinges.**

**Hoisting Machinery.—(See also Cranes.)**

American Steel Export Co. Woolworth Building,  
New York, U.S.A.  
Anderson-Grice Co., Ltd. Carnoustie, Scotland  
Bailey Sir W.H., & Co., Ltd. Salford, Manchester  
Bedford Engineering Co. Bedford, England  
Berry Henry, & Co., Ltd. Croxson Works, Leeds  
British Steel Piling Co. Billiter St., E.C. 3  
Brown Hoisting Machinery Co. Cleveland, Ohio, U.S.A.  
Butler Samuel & Co., Ltd. Stanwingley, near Leeds  
Chaplin Alex., & Co. Govan, Glasgow  
Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
Coles H. J., Ltd. Egyptian House, 170,  
Consolidated Pneumatic } Piccadilly, W. 1  
Tool Co., Ltd. }  
Craven Brothers (Manchester, Ltd.) Vauxhall Wks., Reddish  
Derby }  
Davy Brothers, Ltd. } Stockport  
Davy Brothers, Ltd. } Colchester  
Drysdale & Co., Ltd. } Cradley Heath, Staffs.  
East Ferry Road Engineering Works Co., Ltd. } Haslem, Holland  
Fullerton, Hodgart and } Barkley St., Birmingham  
Barclay, Ltd. }  
Glenfield & Kennedy, Ltd. Teesdale Ironworks, Thorn-  
Hathorn, Davey & Co., Ltd. }aby-on-Tees  
Hayward-Tyler & Co., Ltd. }  
Hollings & Guest, Ltd. } West Gorton, Manchester  
Hydraulic Gears, Ltd. } Lion Works, Cradley  
Marshall, Fleming & Co. } Heath  
Middleton Bros. } Motherwell  
Napier Bros., Ltd. } Friars House, New Broad  
Pickering, Ltd. } St., E.C.  
Priestman Brothers, Ltd. } Pudsey, Leeds  
Ransomes, Sims & Jefferies, } 130, Hyde park St., Glas-  
Rice & Co. (Leeds), Ltd. }gow, W.  
Robey & Co., Ltd. } Stockton-on-Tees  
Ruston & Hornsby, Ltd. } Holderness Fndry, Hull  
Selson Engineering Co., Ltd. }  
Shepard Electric Crane & } Ipswich  
Hoist Co. } Elland Rd., Leeds  
Tangyes Limited } Lincoln  
Vaughan Crane Co., Ltd. } Trafford Pk., Manchester  
Waygood-Otis, Ltd. } Sheaf Ironworks, Lincoln  
Whitakers (Engineers), Ltd. } 85, Qn. Victoria St., E.C.  
Willets Charles, Junr. } Montour Falls, New York,  
Worham, Bates & Goode, } U.S.A.  
Inc. } Birmingham  
Youngs } Openshaw, Manchester  
Falmouth Rd., S.E.  
Horsforth, Leeds  
Cradley Heath, Staffs  
3, London Wall Build-  
ings, E.C.  
Birmingham

**Hose Pipes.**

Bell's United Asbestos Co., Ltd. 503, Southwark St., S.E.  
Guest & Chimes Rotherham  
Gutta Percha & Rubber, Ltd. Toronto, Canada  
India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, B.  
Merryweather & Sons, Ltd. 63, Long Acre, W.C.  
Reddaway F., & Co., Ltd. Pendleton, Manchester  
Tullis John, & Son St. Ann's Leather Wks.,  
Glasgow  
United States Rubber Co., } 47 & 48, Farringdon St.,  
Ltd. } E.C. 4  
Willcox W. H., & Co., Ltd. } 32-33, Southwark St.,  
S.E.  
Woodite Company } Mitcham Common, Sur-  
rey  
Worthington - Simpson, } Queen's House, Kings-  
Ltd. } way, W.C. 2

**Hydrants.**

Alley & Macellan, Ltd. Sentinel Works, Glasgow  
Blakeborough J., & Sons, Woodhouse Wks., Brig-  
house, Yorks  
Glenfield & Kennedy, Ltd. Kilmarnock, N.B.  
Guest & Chimes Rotherham

**Hydraulic Machinery.**

Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks,  
Bridgeton, Glasgow  
Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Berry Henry, & Co., Ltd. Croxson Works, Leeds  
Carruthers J. H., & Co., Ltd. Polmadie Ironwks., Glas-  
Cowan, Sheldon & Co., Ltd. carlie } [gow  
Craven Brothers (Manchester, Ltd.) Vauxhall Wks., Reddish  
Derby }  
Davy Brothers, Ltd. } Stockport  
Davy Brothers, Ltd. } Sheffield  
Drysdale & Co., Ltd. } Ben Accord Wks., Yorker,  
East Ferry Road Engineering Works Co., Ltd. } [Glasgow, W.  
Fullerton, Hodgart and } Millwall, E.  
Barclay, Ltd. } Vulcan Foundry and  
Glenfield & Kennedy, Ltd. } Engine Works, Paisley  
Hathorn, Davey & Co., Ltd. } Kilmarnock, N.B.  
Hayward-Tyler & Co., Ltd. } Leeds  
Hollings & Guest, Ltd. } 99, Queen Victoria St., E.C.  
Thimble Mill Lane, Bir-  
mingham  
Hydraulic Gears, Ltd. } Hammersmith, W.6  
Marshall, Fleming & Co. } Motherwell, N.B.  
Middleton Bros. } Pudsey, Leeds  
Middleton Robert, & Co. } Sheepscar Foundry, Leeds  
Muggrave Bros. } Crown Point Foundry,  
Leeds  
Pulsometer Engineering } Nine Elms Ironworks,  
Co., Ltd. } Reading  
Rees Roturbo Manufactur- }  
ing Co., Ltd. } Wolverhampton  
Rice & Co. (Leeds), Ltd. } Elland Rd., Leeds  
Rose, Downs & Thompson, }  
Ltd. } Old Foundry, Hull  
Selson Engineering Co., Ltd. } 85, Queen Victoria St.,  
E.C.  
Smith Hugh, & Co., Ltd. } Possil Engine Works,  
Glasgow  
Stewart Duncan, & Co., Ltd. } London Rd. Ironworks,  
Glasgow  
Tangyes Limited } Birmingham

**Hydraulic Presses.—(See also Forging Presses.)**

Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks,  
Bridgeton, Glasgow  
Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Berry Henry, & Co., Ltd. Croxson Works, Leeds  
Bessemer Hy., & Co., Ltd. Sheffield  
Davy Brothers, Ltd. Sheffield  
East Ferry Road Engineering Works Co., Ltd. Millwall, E.  
Fawcett, Preston & Co., Ltd. Liverpool  
Fielding & Platt, Ltd. Gloucester  
Hadfield's Limited } Hecla Works, Sheffield  
Hayward-Tyler & Co., Ltd. } 99, Queen Victoria St., E.C.  
Hollings & Guest, Ltd. } Thimble Mill Lane, Bir-  
mingham  
Holt & Willetts } Lion Wks., Cradley Heath  
Manlove, Alliott & Co., Ltd. } Nottingham  
Middleton Robert, & Co. } Sheepscar Foundry, Leeds  
Muggrave Bros. } Crown Point Fndry, Leeds  
Piggott Thos., & Co., Ltd. } Springfield, Birmingham  
Pleck Foundry Co., Ltd. } Walsall  
Rice & Co. (Leeds), Ltd. } Elland Rd., Leeds

**Hydraulic Presses.**—(See also *Forging Presses.*)—*Continued.*

|                              |                              |
|------------------------------|------------------------------|
| Rose, Downs & Thompson, Ltd. | Old Foundry, Hull            |
| Smith Hugh, & Co., Ltd.      | Possil Engine Works, Glasgow |
| Stewart Duncan, & Co., Ltd.  | London Rd. Ironworks, Bath   |
| Stothert & Pitt, Ltd.        | (Glasgow)                    |
| Tangves Limited              | Cornwall Wks., Birm'ham      |
| Taylor & Challen, Ltd.       | Birmingham                   |
| Waygood-Otis, Ltd.           | Falmouth Rd., S.E.           |

**Hydraulic Rams.**

|                                   |                          |
|-----------------------------------|--------------------------|
| Bailey Sir W. H., & Co., Ltd.     | Salford, Manchester      |
| Keith James, & Blackman Co., Ltd. | 27, Farringdon Av., E.C. |

**Hydro-Extractors.**—(See *Centrifugal Drying Machines.*)**Hydrokineters and Temperature Equalisers.**

|                    |                                 |
|--------------------|---------------------------------|
| Brundrit Joseph    | 14, Water St., Liverpool        |
| Weir G. & J., Ltd. | Holm Foundry, Cathcart, Glasgow |

**Ice-Making Machines.**—(See also *Refrigerating Machinery.*)

|                                  |                                    |
|----------------------------------|------------------------------------|
| Allen W. H., Sons, & Co., Ltd.   | Queen's Engineering Works, Bedford |
| Escher, Wyss & Co.               | 109, Victoria St., S.W.            |
| Hall J. & E., Ltd.               | Dartford Ironworks, Kent           |
| Mirrlees Watson Co., Ltd.        | Scotland St., Glasgow              |
| Pontifex & Wood, Ltd.            | Union Foundry, Derby               |
| Pulsometer Engineering Co., Ltd. | Nine Elms Ironworks, Reading       |
| Seagers, Ltd.                    | Dartford, [gow]                    |
| Sterne L., & Co., Ltd.           | Crown Ironworks, Glasgow           |
| West H. J. & Co., Ltd.           | 72-74, Grays Inn, W.C. 1           |

**Igniters (Electric).**

|                   |       |
|-------------------|-------|
| Lodge Plugs, Ltd. | Rugby |
|-------------------|-------|

**Incandescent Lamps.**

|                                   |       |
|-----------------------------------|-------|
| British Thomson-Houston Co., Ltd. | Rugby |
|-----------------------------------|-------|

**India-rubber Goods.**—(See also *Ebonite, and Woodite for Steam, &c., Packings.*)

|                                                        |                                   |
|--------------------------------------------------------|-----------------------------------|
| Bell's United Asbestos Co., Ltd.                       | 593, Southwark St., S.B.          |
| Gutta Percha & Rubber, Ltd.                            | Toronto, Canada                   |
| India-Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silvertown, E.                    |
| Reddaway F., & Co., Ltd.                               | Pendleton, Manchester             |
| United States Rubber Co., Ltd.                         | 47 and 48, Farringdon St., E.C. 4 |
| Woodite Company                                        | Mitcham Common, Surrey            |

**Indicators and Indicator Gear (Steam and Gas Engine).**

|                                      |                               |
|--------------------------------------|-------------------------------|
| Bailey Sir W. H., & Co., Ltd.        | Salford, Manchester           |
| Cook, Chas. W. Ltd.                  | 174, Oxford Rd., Manchester   |
| Crosby Valve & Engineering Co., Ltd. | 147, Queen Victoria St., E.C. |
| Dobbie, McInnes, Ltd.                | 57, Bothwell St., Glasgow     |
| Hannan & Buchanan                    | 75, Robertson St., Glasgow    |
| Negretti & Zambra                    | 38, Holborn Viaduct, E.C.     |

**Injectors.**

|                                |                               |
|--------------------------------|-------------------------------|
| Bailey Sir W. H., & Co., Ltd.  | Salford, Manchester           |
| Davies & Metcalfe, Ltd.        | Romiley, Manchester           |
| Dempster, Moore & Co., Ltd.    | 49, Robertson-St., Glasgow    |
| Green & Boulding, Ltd.         | 28, New Bridge St., B.C.      |
| Gresham & Craven, Ltd.         | Manchester                    |
| Holden & Brook, Ltd.           | West Gorton, Manchester       |
| Lunken Company, Ltd.           | 35, Great Dover St., S.E.     |
| Manlove, Allott & Co., Ltd.    | Nottingham                    |
| Manning, Maxwell & Moore, Inc. | New York                      |
| Willcox W. H., & Co., Ltd.     | 32 to 38, Southwark St., S.E. |
| White's Injectors, Ltd.        | Pendleton, Manchester         |

**Inks.**

|                        |                           |
|------------------------|---------------------------|
| Halden J., & Co., Ltd. | 8, Albert Sq., Manchester |
|------------------------|---------------------------|

**Instruments (Electrical, Surveying, Testing, &c.).**

|                      |                           |
|----------------------|---------------------------|
| Alexander, George H. | Coleshill St., Birmingham |
|----------------------|---------------------------|

**British Thomson-Houston Co., Ltd.**

|       |                            |
|-------|----------------------------|
| Rugby | Broadheath, nr. Manchester |
|-------|----------------------------|

|                     |                             |
|---------------------|-----------------------------|
| Cook, Chas W., Ltd. | 174, Oxford Rd., Manchester |
|---------------------|-----------------------------|

|                         |                        |
|-------------------------|------------------------|
| Cooke, T., & Sons, Ltd. | Buckingham Works, York |
|-------------------------|------------------------|

|                      |                               |
|----------------------|-------------------------------|
| Dudgeon, F. S., Ltd. | 30, Great St. Helen's, E.C. 3 |
|----------------------|-------------------------------|

|                        |                           |
|------------------------|---------------------------|
| Halden J., & Co., Ltd. | 8, Albert Sq., Manchester |
|------------------------|---------------------------|

|                   |                    |
|-------------------|--------------------|
| Heath & Co., Ltd. | New Eltham, S.E. 9 |
|-------------------|--------------------|

|                   |                         |
|-------------------|-------------------------|
| Hilger Adam, Ltd. | 75A, Camden Rd., N.W. 1 |
|-------------------|-------------------------|

|                                 |                               |
|---------------------------------|-------------------------------|
| Kelvin, Bottomley & Baird, Ltd. | 16-20, Cambridge St., Glasgow |
|---------------------------------|-------------------------------|

|                        |                           |
|------------------------|---------------------------|
| Lea Recorder Co., Ltd. | 28, Deansgate, Manchester |
|------------------------|---------------------------|

|                   |                           |
|-------------------|---------------------------|
| Negretti & Zambra | 28, Holborn Viaduct, E.C. |
|-------------------|---------------------------|

|                            |          |
|----------------------------|----------|
| Shore Instrument & Mfg Co. | New York |
|----------------------------|----------|

|                                             |                                |
|---------------------------------------------|--------------------------------|
| Société Genevoise d'Instruments de Physique | 95, Queen Victoria St., E.C. 4 |
|---------------------------------------------|--------------------------------|

**Insulating Materials.**

|                               |                   |
|-------------------------------|-------------------|
| Newall's Insulation Co., Ltd. | Newcastle-on-Tyne |
|-------------------------------|-------------------|

|                    |                           |
|--------------------|---------------------------|
| Wiggins F., & Sons | 102 and 103, Minorics, E. |
|--------------------|---------------------------|

|                 |                        |
|-----------------|------------------------|
| Woodite Company | Mitcham Common, Surrey |
|-----------------|------------------------|

**Insurance Companies.**—(See also *Boiler Inspection & Insurance Societies.*)

|                                              |                           |
|----------------------------------------------|---------------------------|
| London & Lancashire Fire Insurance Co., Ltd. | 155, Leadenhall St., E.C. |
|----------------------------------------------|---------------------------|

**Iron Founders.**—(See *Castings, Iron.*)**Iron Merchants.**

|                         |                                  |
|-------------------------|----------------------------------|
| Birch John, & Co., Ltd. | 2, London Wall Bldgs., Liverpool |
|-------------------------|----------------------------------|

|                   |        |
|-------------------|--------|
| Henderson & Glass | [E.C.] |
|-------------------|--------|

|                                  |                   |
|----------------------------------|-------------------|
| North-European Trading Co., Ltd. | Stockholm, Sweden |
|----------------------------------|-------------------|

**Iron (Fig.).**

|                     |       |
|---------------------|-------|
| Butterley Co., Ltd. | Derby |
|---------------------|-------|

|                      |                        |
|----------------------|------------------------|
| Clay Cross Co., Ltd. | Clay Cross, Derbyshire |
|----------------------|------------------------|

|                                |                                     |
|--------------------------------|-------------------------------------|
| Glasgow Iron & Steel Co., Ltd. | Wishaw Iron and Steel Works, Wishaw |
|--------------------------------|-------------------------------------|

**Iron and Steel Bars.**—(See *Bars—Iron and Steel.*)



**Iron and Steel Buildings.**—(See *Structural Engineering*.)**Iron and Steel Works (Plant for).**—(See also *Crucibles, Cupolas, Forging Machines, Hammers—Power, Presses—Power*.)

|                                               |                                |
|-----------------------------------------------|--------------------------------|
| Ashmore, Benson, Pease & Co., Ltd. . . . .    | Stockton-on-Tees               |
| Berry Henry, & Co., Ltd. . . . .              | Croydon Works, Hunslet, Leeds  |
| Craig & Donald, Ltd. . . . .                  | Johnstone, nr. Glasgow         |
| Dalglish A. & W. . . . .                      | Pollokshaws, Glasgow           |
| Davy Brothers, Ltd. . . . .                   | Sheffield                      |
| Dowson & Mason Gas Plant Co., Ltd. . . . .    | Levenshulme, Manchester        |
| Fraser & Chalmers Engineering Works . . . . . | Erith, Kent                    |
| Galloways, Ltd. . . . .                       | Manchester                     |
| General Electric Co., Ltd. . . . .            | 67, Queen Victoria St., E.C. 4 |
| Harvey Engineering Co., Ltd. . . . .          | Glasgow                        |
| Head, Wrightson & Co., Ltd. . . . .           | Thoraby-on-Tees                |
| Heenan & Froude, Ltd. . . . .                 | Manchester                     |
| Hollings & Guest, Ltd. . . . .                | Thimble Mill Lane, Birmingham  |
| Holdern & Mason . . . . .                     | St. Mary's, Birmingham         |
| Lilleshall Co., Ltd. . . . .                  | Oakengates, Shropshire         |
| Marsden H. R., Ltd. . . . .                   | Soho Foundry, Leeds            |
| Musgrave Bros. . . . .                        | Crown Point Foundry, Leeds     |
| Rice & Co. (Leeds), Ltd. . . . .              | Elland Rd., Leeds              |
| Tickle John, & Co., Ltd. . . . .              | West Bromwich                  |
| Yates & Thom, Ltd. . . . .                    | Canal Works, Blackburn         |

**Jacks (Lifting).**

|                                       |                                |
|---------------------------------------|--------------------------------|
| Dempster, Moore & Co. . . . .         | 49, Robertson St., Glasgow     |
| Gibbins R. C. & Co. . . . .           | Berkley St., Birmingham        |
| Holt & Willetts . . . . .             | Lion Wks., Cradley Heath       |
| Tannges Limited . . . . .             | Birmingham                     |
| Willetts Charles, Junr., Ltd. . . . . | Cradley Heath, Staffs.         |
| Wonham Bates & Goode, Inc. . . . .    | 3, London Wall Buildings, E.C. |
| Youngs . . . . .                      | Ryland St. Wks., B'ham         |

**Joining Materials.**—(See also *Asbestos Goods, &c., India-rubber Goods, and Packing—Engine & Hydraulic*.)

|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| Beldam Packing & Rubber Co., Ltd. . . . . | 29, Gracechurch St., E.C. 3             |
| Bell's United Asbestos Co., Ltd. . . . .  | 59, Southwark St., S.E.                 |
| Cape Asbestos Co., Ltd. . . . .           | 23, King St., E.C. 2                    |
| Graphite Products, Ltd. . . . .           | 218-220, Queen's Rd., Battersea, S.W. 8 |
| Hobdell, Way & Co., Ltd. . . . .          | St. John's House, 124-5, Minorities, E. |
| Metallic Manufacturing Co., Ltd. . . . .  | Ardrossan                               |
| Notcutt Walter P., Ltd. . . . .           | 8, White St., E.C.                      |
| Powerite Steam Jointing Co., Ltd. . . . . | 16 and 17, Devonshire Square, E.C. 2    |
| Thermofelt, Ltd. . . . .                  | 66, Fenchurch St., E.C. 3               |
| Thomas & Bishop . . . . .                 | 37, Tabernacle St., E.C.                |
| Turner Bros. Asbestos Co., Ltd. . . . .   | Rochdale                                |

**Joints, Rolled (Iron and Steel)**

|                                           |                       |
|-------------------------------------------|-----------------------|
| Dunkley C. C. & Co., Ltd. . . . .         | Store St., Manchester |
| Lanarkshire Steel Co., Ltd. . . . .       | Motherwell            |
| Partington Steel & Iron Co., Ltd. . . . . | Irlam, Manchester     |

**Kilns.**

Fletcher George, &amp; Co., Ltd. Litchurch, Derby

**Laboratories and Testing Plants.****Ladders and Steps.****Ladies.**

|                                        |                                       |
|----------------------------------------|---------------------------------------|
| Clayton Son, & Co., Ltd. . . . .       | Hunslet, Leeds                        |
| Constructional Engineering Co. . . . . | Charles Henry St., Birmingham         |
| McNeil C., Ltd. . . . .                | Kinning Park Hydraulic Forge, Glasgow |

**Lamps.**—(See also *Electric Lighting & Power Plant, and Incandescent Lamps*.)

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Allen-Liversidge, Ltd. . . . .            | 106, Victoria St., S.W.       |
| British Thomson-Houston Co., Ltd. . . . . | Rugby                         |
| General Electric Co., Ltd. . . . .        | Queen Victoria St., E.C. 4    |
| Guest & Chimes . . . . .                  | Rotherham                     |
| Howes & Burley, Ltd. . . . .              | Birmingham                    |
| Kitson Empire Lighting Co., Ltd. . . . .  | Stamford, Lincs.              |
| Pope's Electric Lamp Co., Ltd. . . . .    | Hythe Rd., Willesden, N.W. 10 |
| Wells A. C., & Co. . . . .                | 102, Midland Rd., N.W.        |

**Lathes.**—(See *Machine Tools*.)**Launches & Yachts.**—(See also *Motor Boats*.)

|                                                    |                                             |
|----------------------------------------------------|---------------------------------------------|
| Alley & Maclellan, Ltd. . . . .                    | Sentinel Works, Glasgow                     |
| Chaplin Alex. & Co. . . . .                        | Glasgow                                     |
| Cochran & Co. (Annan), Ltd. . . . .                | Annan, N.B.                                 |
| Day, Summers & Co., Ltd. . . . .                   | Southampton                                 |
| Escher, Wyss & Co. . . . .                         | 109, Victoria St., S.W.                     |
| Fleming & Ferguson, Ltd. . . . .                   | Paisley, N.B.                               |
| Forth Shipbuilding & Engineering Co., Ltd. . . . . | Govan, Glasgow                              |
| Hayes Edward . . . . .                             | Stony Stratford, Wol.                       |
| McKie & Baxter . . . . .                           | Govan, Glasgow                              |
| Normand Augustin . . . . .                         | 67, Rue du Perrey, Le Havre, France         |
| Ross & Duncan . . . . .                            | Whitefield Wks., Glasgow                    |
| Simons W., & Co., Ltd. . . . .                     | Renfrew, N.B.                               |
| Smit L., & Zoons . . . . .                         | Kinderdijk, Holland                         |
| Summers & Payne, Ltd. . . . .                      | Southampton                                 |
| Thornycroft J. I., & Co., Ltd. . . . .             | Southampton and 10, Grosvenor Place, S.W. 1 |
| Vosper & Co., Ltd. . . . .                         | Portsmouth                                  |
| Yarrow & Co., Ltd. . . . .                         | Glasgow                                     |

**Laundry Machinery.**—(See also *Centrifugal Drying Machines, and Drying Apparatus*.)

|                                      |                         |
|--------------------------------------|-------------------------|
| Manlove, Alliott & Co., Ltd. . . . . | Nottingham [Glasgow]    |
| Tullis D. & J., Ltd. . . . .         | Kilbowie Ironworks, nr. |

**Leathers (Hydraulic, &c.).**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Cooke, E. J. . . . .                        | Blackfriars, Manchester     |
| Leathers Company (Altrincham), Ltd. . . . . | Altrincham, near Manchester |

**Lifts.**

|                                       |                          |
|---------------------------------------|--------------------------|
| Bailey Sir W. H., & Co., Ltd. . . . . | Salford, Manchester      |
| Berry Henry, & Co., Ltd. . . . .      | Croydon Works, Leeds     |
| Gibbins R. C. & Co. . . . .           | Berkley St., Birmingham  |
| Holt & Willetts . . . . .             | Lion Wks., Cradley Heath |
| Pickerings, Ltd. . . . .              | Stockton-on-Tees         |
| Rice & Co. (Leeds), Ltd. . . . .      | Elland Rd., Leeds        |

**Lifts—Continued.**

- Steven, A. P. .. .. 181, St. James' Rd., Glasgow  
 Tangyes Limited .. .. Birmingham  
 Waygood-Otis, Ltd. .. .. Falmouth Rd., S.B.  
 Willetts Charles, Junr., } Colonial Works, Cradley  
 Ltd. } Heath, Staffs.

**Light Railways.—(See Railways—Light and Portable.)****Lights.—(See Barges.)****Lighting Apparatus.—(See also Electric Lighting Plant.)**

- Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.  
 Carron Company .. .. Carron, Stirlingshire  
 India-Rubber, Gutta Percha }  
 & Telegraph Works, Co., Ltd. } Silvertown, E.  
 Keith James, & Blackman } 27, Farringdon Avenue,  
 Co., Ltd. } E.C.  
 Kitson Empire Lighting }  
 Co., Ltd. } Stamford, Lincs.  
 Wells A. C. & Co. .. .. 102, Midland Rd., N.W.

**Lightning Conductors.**

- Bailey Sir W. H., & Co., Ltd. Salford, Manchester

**Liquid Fuel.**

- Anglo-Mexican Petroleum }  
 Products Company, Ltd. } Finsbury Circus, E.C.2  
 Brotherton & Co., Ltd. .. City Chambers, Leeds  
 Kermodes Ltd. .. .. 35, The Temple, Dale St.,  
 Liverpool

**Lock Nuts and Nut-Locking Appliances.**

- Bayliss, Jones & Bayliss, Ltd. Wolverhampton  
 Cammiss, Edward E. .. West Hartlepool  
 Grover & Co., Ltd. .. Carpenter's Rd., Strat-  
 ford, B.  
 Positive Lock Washer Co. 118-122, James Watt St.,  
 Glasgow  
 Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.

**Locomotive Engines.—(See Engines, Locomotive.)****Locomotives (Mountings for).**

- Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Barclay Andrew, Sons & Co., } Caledonia Works, Kil-  
 Ltd. } marnock  
 Hopkinson J., & Co., Ltd. .. Huddersfield  
 Lunken Co., Ltd. .. .. 35, Great Dover St., S.B.

**Looms.****Lubricants (Cutting).**

- British Oil Products Co., } Townmill Rd., Dennis-  
 Ltd. } town, Glasgow  
 Sterns, Ltd. .. .. 16, Finsbury Sq., E.C.

**Lubricants and Oils.**

- Bell's United Asbestos Co., }  
 Ltd. } 591, Southwark St., S.B.  
 Graphite Products, Ltd. .. 218-220, Queen's Rd.,  
 S.W. 8  
 Kingfisher .. .. 1118, Leeds  
 Mountford Fredk., Ltd. .. Birmingham  
 Russell Oil Co. .. .. 36, Short Rd., Stratford,  
 E. 15

**Lubricants and Oils—Continued.**

- Sterns, Ltd. .. .. 16, Finsbury Sq., E.C.  
 Thomas & Bishop .. .. 37, Tabernacle St., E.C.  
 Tranter's W. }, Boiler  
 Appliance Co. .. .. Tipton, Staffordshire  
 Trier Bros., Ltd. .. .. 36, Victoria St., S.W. 1  
 Wells Henry, Oil Co. .. 11, Haymarket, S.W. 1  
 Willcox W. H. & Co., Ltd. 32-38, Southwark St., S.B.

**Lubricators.**

- Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Bell's United Asbestos Co., }  
 Ltd. } 591, Southwark St., S.B.  
 Butterworth Bros., Ltd. .. Manchester  
 Crosby Valve & Engineering } 147, Queen Victoria St.,  
 Co., Ltd. .. } E.C.  
 Hunt & Mitton, Ltd. .. Oozells St., North, Bir-  
 mingham  
 Lees T. & R. .. .. Hollinwood, near Man-  
 chester  
 Lunken Co., Ltd. .. .. 35, Great Dover St.,  
 S.B.  
 McCord Manufacturing Co., }  
 Inc. } Detroit, Michigan, U.S.A.  
 Partridges, Ltd. .. .. 143, Northwood St.,  
 Birmingham  
 Piggott Thos., & Co. .. Springhill, Birmingham  
 Russell John, & Co., Ltd. Manchester  
 Russell's Engineering Co. 37, Adam St., Birming-  
 ham  
 Steam Cylinder Lubricator } Gordon Works, Lower  
 Co., Ltd. } Broughton, Manch'ster  
 Sterns, Ltd. .. .. 16, Finsbury Sq., E.C.  
 Tangyes Limited .. .. Birmingham  
 Trier Brothers, Ltd. .. 36, Victoria St., S.W. 1  
 Vickers Benjn. R., & Sons, }  
 Ltd. } Leeds  
 Wakefield C. C., & Co. .. Wakefield House, Cheap-  
 side, E.C.  
 Willcox W. H., & Co., Ltd. 32 to 38, Southwark St.,  
 S.B.

**Machine Tools.—(See also Chucks, Second-hand Tools, &c., and Tools—Hand and Small.)**

- Archdale Jas., & Co., Ltd. .. Ledsam St., Birmingham  
 Armstrong Sir W. G., .. 8, Great George St.,  
 Whitworth & Co., Ltd. S.W. 1  
 Asquith William (1919), }  
 Ltd. } Park Works, Halifax  
 Associated British Machine } 17, Grosvenor Gardens,  
 Tool Makers, Ltd. } S.W. 1  
 Barker, Spink, Lease & Co. Shipley, Yorks  
 Becker Milling Machine Co. Boston, Mass., U.S.A.  
 Berry F., & Sons .. .. Sowerby Bridge  
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds  
 Bertrams Limited .. .. Sciennes, Edinburgh  
 Beyer, Peacock & Co., Ltd. Gorton Foundry, Man-  
 chester  
 Bromell Patents Co., Ltd. Glasgow  
 Buck & Hickman, Ltd. .. 2 and 4, Whitechapel Rd.,  
 E. 1  
 Buckton Joshua, & Co., }  
 Ltd. } Leeds  
 Bullard Machine Tool Co. Bridgeport, Conn. U.S.A.  
 Burton, Griffiths & Co., } 64, Vauxhall Bridge Rd.,  
 Ltd. } S.W. 1  
 Butler Machine Tool Co., } Victoria Ironworks, Hal-  
 Ltd. } fax, Eng.  
 Cameron John, Ltd. .. Oldfield Road Ironworks,  
 Salford  
 Campbells & Hunter, Ltd. Dolphin Foundry, Leeds

**Machine Tools.**—(See also Chucks, Second-hand Tools, &c., and Tools—Hand and Small.)—Continued.

Chambers, Scott & Co., Ltd. Motherwell  
 Champion Tool Works Co. Cincinnati, Ohio, U.S.A.  
 Church Street Machinery } 30, Church St., New  
 Engineering Corp. } York, U.S.A.  
 Churchill Chas., & Co., Ltd. 9 to 15, Leonard St., E.C.  
 Cincinnati Lathe & Tool Co. Oakley, Cincinnati, Ohio,  
 U.S.A.  
 Clifton & Baird, Ltd. .. Johnstone, Scotland  
 Clifton & Waddell } Johnstone, nr. Glasgow  
 Coats Machine Tool Co., }  
 Ltd. } 14, Palmer St., S.W. 1  
 Colley Engineering & } 17, Surrey St., S.rand,  
 Machinery Co. } W.C. 2  
 Consolidated Pneumatic } Egyptian House, 170,  
 Tool Co., Ltd. } Piccadilly, W. 1  
 Craig & Donald, Ltd. } Johnstone, nr. Glasgow  
 Craven Bros. (Manchester), } Vauxhall Wks., Reddish,  
 Ltd. } Stockport  
 Dalton Manufacturing } 1911, Park Av., New  
 Corporation } York, U.S.A.  
 Davie Bros., Ltd. .. Glasgow  
 Davis & Primrose, Ltd. .. Bangor Rd., Leith, N.B.  
 Dempster, Moore & Co., Ltd. 49, Robertson St., Glasgow  
 Drummond Bros., Ltd. .. Engel Wks., nr. Guildford  
 Enterprise Engineering Wks. Beech Road, Sparkhill,  
 Birmingham  
 Farmer & Co. .. 150, St. John St., Clerken-  
 well, E.C. 1  
 Forbes Brothers .. Doe St., Birmingham  
 Haighs (Oldham), Ltd. .. Globe Ironworks, Oldham  
 Harvey G. & A. Ltd. .. Govan, Glasgow, W.  
 Heap Joshua, & Co., Ltd. .. Ashton-under-Lyne  
 Herbert Alfred, Ltd. .. Coventry  
 Herbert Edward G., Ltd. .. Levenshulme Manchester  
 Hirst Bros., & Co., Ltd. .. 57, Roscoe St., Oldham,  
 Lancs.  
 Jardine John .. Deering St., Notting-  
 ham  
 Jones A.A., & Shipman, Ltd. East Park Rd., Leicester  
 Jones & Lamson Machine Co. 109, Qn Victoria St., E.C.  
 Kearns H.W., & Co., Ltd. Broadheath, nr. Man-  
 chester  
 Lang J., & Sons .. Johnstone, N.B.  
 Lash Robert H., Ltd. .. 23, Tavistock Sq., W.C. 1  
 Lloyd Richard, & Co. .. Galton Works, Steelhouse  
 Lane, Birmingham  
 Loudon Brothers, Ltd. .. 39, West Campbell St.,  
 Glasgow  
 Machinery & Steels, Ltd. 7, Queen St., F.C.  
 Maiden & Co., Ltd. .. Hyde, Cheshire  
 Mikron, Ltd. .. Bienne, Switzerland  
 Milton, Ltd. .. Besley St., Streatham,  
 S.W. 16  
 Moorlands Engineering Co., }  
 Ltd. } Leek, Staffs.  
 Muir Wm., & Co., Ltd. .. Sherbourne St., M'chester  
 Musgrave Bros. .. Crown Point Endry, Leeds  
 Nathan H. L. .. 16, Regent Place, Bir-  
 mingham  
 National Lathe Co. .. Cincinnati, Ohio  
 Newbold, Walter, & Co., } 22, Martin Lane, Can-  
 Ltd. } non St., E.C. 4  
 Niles-Bement-Pond Co. .. 111, Broadway, New York,  
 U.S.A.  
 Niles-Bement-Pond Co. .. 23 & 25, Victoria St., S.W.  
 Noble & Lund, Ltd. .. Felling, nr. Newcastle-on-  
 Tyne  
 Parkinson J., & Son .. Shipley, Yorkshire  
 Pearn Frank, & Co., Ltd. Manchester

**Machine Tools.**—(See also Chucks, Second-hand Tools, &c., and Tools—Hand and Small.)—Continued.

Pollard Fredk., & Co., Ltd. Corona Works, Leicester  
 Pollock & Macnab, Ltd. .. Bredbury, nr. Stockport  
 Purden Charles, Ltd. .. Lancaster St., Birming-  
 ham  
 Rahn-Larmon Co. .. Cincinnati, Ohio, U.S.A.  
 Redman C., & Sons .. Kingston, Halifax  
 Rhodes Mfg. Co. .. Hartford, Conn., U.S.A.  
 Rice & Co. (Leeds), Ltd. .. Eland Rd., Leeds  
 Richards Geo., & Co., Ltd. Broadheath, nr. M'chester  
 Ryerson Joseph T., & Son Chicago, Ill., U.S.A.  
 Scott Bros. (Keighley) .. Albion Works, Keighley  
 Selson Engineering Co., Ltd. 85, Queen Victoria St., E.C.  
 Shanks Thomas, & Co., Johnstone  
 Smith, Barker & Willson, }  
 Ltd. } Halifax [Glasgow  
 Smith Hugh, & Co., Ltd. .. Possil Engine Works,  
 Smith J. E. .. 237, Broad St., B.r-  
 mingham  
 Steintle Turret Machine Co. 53, Victoria St., S.W.  
 Stirk John, & Sons, Ltd. .. Halifax  
 Swift George, & Sons, Ltd. Range Bank, Halifax  
 Swiss Machine Tool Works Oerlikon, Switzerland  
 Tangyes Limited .. Birmingham  
 Taylor Charles (Birming- }  
 ham), Ltd. } Bartholomew Square, Bir-  
 mingham  
 Timbrell & Wright Machine }  
 Tool & Eng. Co., Ltd. } Birmingham  
 Tullis D. & J., Ltd. .. Kilbowie Ironworks, nr.  
 Glasgow  
 Walber W. A., & Co. .. 38, Victoria St., S.W.  
 Ward, Hargis & Smith .. Eastwood, Keighley  
 Ward H. W., & Co., Ltd. .. Lionel St., Birmingham  
 Ward Thos. W., Ltd. .. Albion Works, Sheffield  
 Webster & Bennett, Ltd. Foleshill, Coventry  
 Wharton H., Ltd. .. Station Rd., Reddish,  
 Stockport  
 Winn Charles, & Co. .. Granville Place, Birming-  
 ham  
 Wisconsin Electric Co. .. Racine, Wisconsin, U.S.A.  
 Wolsey Motors, Ltd. .. York St., Westminster,  
 S.W.

**Machining for the Trade.**  
 Beverley Works, Ltd. .. Willow Avenue, Barnes,  
 S.W. 13  
 Dangerfield W. & J. .. Goldthorn Hill, Wolver-  
 hampton  
 Farmer Brothers .. Shifnal, Salop  
 Farnworth Engineering Co. Hall Lane, Moses Gate,  
 Bolton  
 Heath & Co., Ltd. .. New Eltham, S.E. 9  
 Resser & Russell, Ltd. .. Queen's Wharf, Ham-  
 mersmith  
 Wilsons & Berry, Ltd. .. 4, St. Peter's, Bedford  
 Woodside Engineering Co., }  
 Ltd. } Possilpark, Glasgow  
 Wyld Harry W. .. Hill Top, West Broom-  
 wich

**Magnets.**—(See Separators, Magnets, &c.).

**Magnets (Lifting).**  
 Igranic Electric Co., Ltd. 147, Qn. Victoria St., E.C.  
 Smith Thos., & Sons (Rod- }  
 ley), Ltd. } Rodley, near Leeds  
 Westminster Tool & Elec- } 116 Putney Bridge Rd.,  
 tric Co. .. Putney, S.W. 15  
 Woonham, Bates & Goode, } 3, London Wall Build-  
 Inc. .. ings, B.C.

**Magnetics.**

British Lighting and Ignition Co., Ltd. ... } Blis Works, Cheston Rd.,  
Astons, Birmingham

**Manganese Steel Castings and Forgings.**

Allen Edgar, & Co., Ltd. ... Sheffield  
Firth Thos., & Sons, Ltd. ... Norfolk Works, Sheffield  
Haddfields Limited ... Hecla Works, Sheffield  
Osborn Samuel, & Co., Ltd. ... Clyde Steel Wks., Sheffield  
Steven & Struthers ... Kelvinhaugh, Glasgow

**Manhole Doors.—(See also Boiler Manholes.)**

King David, & Sons, Ltd. ... Possil Park, Glasgow  
McNeil C., Ltd. ... Glasgow

**Manufacturers.—(See also Patent Law.)**

Hunt Thomas, & Sons ... Bridge Rd., West Batterssea, S.W. 11

**Marine Auxiliaries.**

Carron Company ... Carron, Stirlingshire

**Mathematical Instrument Makers.—(See Drawing Instruments.)****Measuring Machines.—(See Micrometers.)****Mechanical Engineers (Consulting).**

Davey, Paxman & Co., Ltd. ... Colchester

**Merchants (Machinery, &c.).**

Adams & Benson, Ltd. ... Albion, West Bromwich  
Birch John, & Co., Ltd. ... 2, London Wall Buildings, E.C.  
Church Street Machinery } 30, Church St., New  
& Engineering Corp. ... York, U.S.A.  
Côte-Rébé Jean ... 79, Rue Lafayette, Paris  
Explosives Trades, Ltd. ... 6, Cavendish Square, W.1  
Jennings Edward J. ... Westwalls, Newcastle-on-Tyne

MacLellan P. & W., Ltd. ... Clutha Works, Glasgow  
Redpath, Brown & Co., Ltd. ... 2, St. Andrew Square, Edinburgh  
Vitali Carlo ... 94, Viale Abruzzi, Milan, Italy

Willcox W. H., & Co., Ltd. ... 32-38, Southwark St., S.B.

**Metallic Packing.**

Green & Boulding, Ltd. ... 28, New Bridge St., E.C.  
Lancaster & Tonge, Ltd. ... Pendleton, nr. Manchester.  
United States Metallic } Soho Works, Allerton  
Packing Co., Ltd. ... Rd., Bradford

**Metals (Alloy Steels).**

Henderson, John M., & Co. ... King's Works, Aberdeen

**Metals (Anti-Friction).**

Atlas Metals & Alloys, Ltd. ... 52, Qn. Victoria St., E.C.  
Birkett T. M., & Sons, Ltd. ... Hanley, Staffs.  
Bull's Metal & Melloid Co. ... Yoker, near Glasgow.  
Fry's Metal Foundry ... 25-42, Holland St., Blackfriars, S.E. 1  
Glacier Anti-Friction Metal } Waldo Rd., Willesden  
Co., Ltd. ... Junction, N.W.  
Hoyt Metal Co., Ltd. ... Deodar Rd., Putney, S.W. 15

Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Qn. Victoria St., E.C.  
Richards J. H., & Co., Ltd. ... Cato St. North, Salfley, Birmingham

**Metals (Phosphor Alloys, &c.).**

Armstrong Sir W. G., Whitworth, & Co., Ltd. } 8, Great George St., S.W. 1  
Atlas Metal & Alloys Co., Ltd. ... 52, Qn. Victoria St., B.C.  
Billington & Newton, Ltd. ... Longport, Staffordshire  
Birkett T. M., & Sons, Ltd. ... Hanley, Staffordshire  
Bolton Thomas, & Sons, Ltd. ... 57, Bishopsgate, E.C. 2  
Bull's Metal & Melloid Co., Ltd. ... Yoker, near Glasgow  
Delta Metal Co., Ltd. ... East Greenwich, S.B.  
Everitt & Co., Ltd. ... 40, Chapel St., Liverpool  
Glacier Anti-Friction Metal } Waldo Rd., Willesden  
Co., Ltd. ... Junction, N.  
Lunken Company, Ltd. ... 35, Great Dover St., S.B.  
McKechnie Brothers, Ltd. ... Rotton Park St., Birmingham

Magnolia Anti-Friction Metal Co., of Great Britain, Ltd. ... 49, Queen Victoria St., E.C.

Metallurgical Co., Ltd. ... Walker Gate, Newcastle-on-Tyne  
Muntz P. H., & Co., Ltd. ... Alexandra Works, West Bromwich

Pegler Bros. & Co. (Glasgow), Ltd. ... Anderston, Glasgow

Steven & Struthers ... Kelvinhaugh, Glasgow  
Vickers Limited ... Vickers House, Broadway, Westminster, S.W.  
Weir, G. & J. Ltd. ... Cathcart, Glasgow

**Meters.**

Glenfield & Kennedy, Ltd. ... Kilmarnock, N.B.  
Guest & Chrimes ... Rotherham  
Kent Geo., Ltd. ... 199, High Holborn, W.C.  
Lea Recorder Co., Ltd. ... 28, Deansgate, Manchester  
Siemens Bros. & Co., Ltd. ... Woolwich, S.E. 18  
Worthington-Simpson, Ltd. ... Queen's House, Kingsway, W.C. 2

**Mica Merchants**

Wiggins F., & Sons ... 102, 103 & 104, Minorics, B.

**Micrometers.**

Armstrong Sir W. G., Whitworth & Co., Ltd. } 8, Great George St., S.W. 1  
Newall Engineering Co. ... Walthamstow, E. 17  
Notcutt Walter P., Ltd. ... 8, White St., Moorfields, E.C. 2  
Precision Gauges, Ltd. ... Wrentham St., Birmingham  
Shore Instrument & Mfg. Co. ... New York  
Société Genevoise d'Instruments de Physique ... 95, Queen Victoria St., E.C. 4  
Williams J. H., & Co. ... 91, Richard St., Brooklyn, New York, U.S.A.

**Mill Gearing.—(See Wheels—Geared; also Shafting and Shaft Fittings.)****Mill Machinery (Flour, Corn and Rice).**

Blackstone & Co., Ltd. ... Rutland Wks., Stamford  
Marshall, Sons & Co., Ltd. ... Gainsborough  
Ransomes, Sims & Jefferies, Ltd. ... Ipswich  
Robinson T., & Son, Ltd. ... Rochdale  
Ruston & Hornsby, Ltd. ... Sheaf Ironworks, Lincoln

**Milling Cutters and Cutter Blanks.**

|                                            |                                         |
|--------------------------------------------|-----------------------------------------|
| Apex Steel Company, Ltd.                   | Penistone Rd., Sheffield                |
| Armstrong Sir W. G., Whitworth & Co., Ltd. | 8, Great George St., S.W. 1             |
| Birmingham Small Arms Co., Ltd.            | Birmingham                              |
| Brook Tool Mfg. Co., Ltd.                  | Belgrave Rd., Birmingham                |
| Chatwin Thomas, Ltd.                       | Great Tindal St., Birmingham            |
| Churchill Chas., & Co., Ltd.               | 9 to 15, Leonard St., E.C.              |
| Darwin & Milner, Ltd.                      | Sheffield                               |
| Deloro Smelting & Refining Co., Ltd.       | 174, Corporation St., Birmingham        |
| Fairley James, & Sons, Ltd.                | Birmingham and Sheffield                |
| Firth Thos., & Sons, Ltd.                  | Norfolk Works, Sheffield                |
| Forbes Bros.                               | Doe St., Birmingham                     |
| Muir Wm., & Co., Ltd.                      | Shebourne St., M'chester                |
| Parc, Ltd.                                 | Clarence Wks., Lockhurst Lane, Coventry |

**Milling Machines.—(See Machine Tools.)****Mills (Paint, Oil, Mortar, &c.).**

|                        |                           |
|------------------------|---------------------------|
| Blackstone & Co., Ltd. | Rutland Works, Stamford   |
| Pratchitt Brothers.    | Denton Ironwks., Carlisle |
| Smedley Bros., Ltd.    | Belper, Derbyshire        |

**Mining Machinery.—(See also Colliery Plant.)**

|                                      |                                                           |
|--------------------------------------|-----------------------------------------------------------|
| Allen Edgar, & Co., Ltd.             | Sheffield                                                 |
| Allen W. H. Sons & Co., Ltd.         | Bedford                                                   |
| Bailey Sir W. H., & Co., Ltd.        | Salford, Manchester                                       |
| Barclay Andrew Sons & Co., Ltd.      | Caledonia Wks., Kilmarnock, Scotland                      |
| Clay Cross Co., Ltd.                 | Clay Cross, near Chesterfield (Derby)                     |
| Coles H. J., Ltd.                    | London Crane Works, Consolidated Pneumatic Tool Co., Ltd. |
| Davey, Paxman & Co., Ltd.            | Colchester                                                |
| Firth Thos., & Sons, Ltd.            | Norfolk Works, Sheffield                                  |
| Fletcher George, & Co., Ltd.         | Litchurch, Derby                                          |
| Fowler J., & Co. (Leeds), Ltd.       | Leeds                                                     |
| Hadfields Limited.                   | Hecla Works, Sheffield                                    |
| Hathorn, Davey & Co., Ltd.           | Leeds (aby-on-Tees)                                       |
| Head, Wrightson & Co., Ltd.          | Teesdale Ironwks., Thorne                                 |
| Heenan & Froude, Ltd.                | Worcester                                                 |
| Jeffrey Manufacturing Co.            | Columbus, Ohio, U.S.A.                                    |
| Marsden H. R., Ltd.                  | Soho Foundry, Leeds                                       |
| Marshall, Sons & Co., Ltd.           | Gainsborough                                              |
| Pulsometer Eng. Co., Ltd.            | Nine Elms Ironworks, (Reading)                            |
| Ransomes, Sims & Jefferies, Ltd.     | Ipswich                                                   |
| Rees Roturbo Manufacturing Co., Ltd. | Wolverhampton                                             |
| Robey & Co., Ltd.                    | Lincoln                                                   |
| Ruston & Hornsby, Ltd.               | Lincoln and Grantham                                      |
| Sandycroft, Ltd.                     | Chester                                                   |
| Standard Engineering Co., Ltd.       | Leicester                                                 |
| Tangye Limited                       | Birmingham                                                |
| Walker Bros. (Wigan), Ltd.           | Pagefield Iron Works, Wigan                               |
| Worthington-Simpson, Ltd.            | Queen's House, King's-way, W.C.                           |

**Mini Machinery.**

|                           |                          |
|---------------------------|--------------------------|
| Firth Thos., & Sons, Ltd. | Norfolk Works, Sheffield |
| Taylor & Challen, Ltd.    | Birmingham               |

**Mixers.**

|                                      |                                                 |
|--------------------------------------|-------------------------------------------------|
| Davy Brothers, Ltd.                  | Sheffield                                       |
| Hardy & Padmore, Ltd.                | Worcester                                       |
| Ransome-ver Mehr Machinery Co., Ltd. | 14 and 16, Grosvenor Gardens, Westminster, S.W. |
| Stothert & Pitt, Ltd.                | Bath                                            |

**Model Makers.**

|                        |                             |
|------------------------|-----------------------------|
| Rosser & Russell, Ltd. | Queen's Wharf, Hammer-smith |
|------------------------|-----------------------------|

**Motor Boats.—(See also Launches & Yachts.)**

|                               |                             |
|-------------------------------|-----------------------------|
| Thornycroft J.I., & Co., Ltd. | 10, Grosvenor Place S.W. 1  |
| Vosper & Co., Ltd.            | Portsmouth                  |
| White J. Samuel, & Co., Ltd.  | East Cowes, Isle of Wight   |
| Wolsley Motors, Ltd.          | York St., Westminster, S.W. |

**Motor Cars.—(See Motor Vehicles.)****Motor Starters and Accessories.**

|                                           |                               |
|-------------------------------------------|-------------------------------|
| Booth Joseph, & Bros., Ltd.               | Rodley, Leeds                 |
| British Thomson-Houston Co., Ltd.         | Rugby                         |
| Electric & Ordnance Accessories Co., Ltd. | Aston, Birmingham             |
| Electric Control, Ltd.                    | Bridgeton, Glasgow            |
| Holmes J. H., & Co.                       | Newcastle-upon-Tyne           |
| Igranic Electric Co., Ltd.                | 147, Queen Victoria St., E.C. |
| Metropolitan-Vickers Electrical Co., Ltd. | Trafford Park, Manchester     |
| Precision Gauges, Ltd.                    | Wrentham St., Birmingham      |
| Sandycroft Limited                        | Chester                       |

**Motor Vehicles.**

|                                    |                              |
|------------------------------------|------------------------------|
| Albion Motor Car Co., Ltd.         | Scotstoun, Glasgow           |
| Alley & Macdellan, Ltd.            | Sentinel Works, Glasgow      |
| Austin Motor Co., Ltd.             | Northfield, Birmingham       |
| Avonside Engine Co., Ltd.          | Bristol                      |
| Broom & Wade, Ltd.                 | High Wycombe                 |
| Clayton & Co. (Huddersfield), Ltd. | Huddersfield                 |
| Commercial Cars, Ltd.              | Luton                        |
| Hall J. & E., Ltd.                 | 10, St. Swithin's Lane, E.C. |
| Maudslay Motor Co., Ltd.           | Parkside, Coventry           |
| Robey & Co., Ltd.                  | Lincoln                      |
| Stewart Duncan, & Co., Ltd.        | Glasgow                      |
| Thornycroft J.I., & Co., Ltd.      | 10, Grosvenor Place, S.W. 1  |
| Tilling-Stevens Motors, Ltd.       | Maidstone                    |
| Wolsley Motors, Ltd.               | York St., S.W.               |

**Motors.—(See Electric Motors.)****Moulding Machines.**

|                                |                          |
|--------------------------------|--------------------------|
| Adaptable Moulding Machine Co. | Stanhope St., Birmingham |
| Wallwork Henry & Co., Ltd.     | Manchester               |

**Nail (Wire, &c.), Making Machinery.**

|                          |                          |
|--------------------------|--------------------------|
| Sleeper & Hartley (Inc.) | Worcester, Mass., U.S.A. |
|--------------------------|--------------------------|

**Name Plates.**

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Butler-Jones (Nameplates), Ltd.  | Dartmouth Wks., Forest Hill, S.E. 23 |
| Manchester Metal Engraving Co.   | Deansgate, Manchester                |
| United Metal Engraving Co., Ltd. | 40, High Bridge, Newcastle-on-Tyne   |

**Non-Conducting Compositions.**

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Bell's United Asbestos Co., Ltd. | 59½, Southwark St., S.B. Ltd.        |
| Kenyon Wm., & Sons, Ltd.         | Dukinfield, Manchester               |
| Leroy P., & Co.                  | 20, Gray St., E.                     |
| Newall's Insulation Co., Ltd.    | Newcastle-on-Tyne                    |
| Sutcliffe Bros.                  | Soho Wks., Godley, near [Manchester] |
| Tranter's W. J., Boiler          | Tipton, Staffs                       |
| Appliance Co.                    |                                      |
| Turner Bros. Asbestos Co., Ltd.  | Rochdale                             |

**Nut-Making Machines.**

|                        |            |
|------------------------|------------|
| Platt Samuel, Ltd.     | Wednesbury |
| Taylor & Challen, Ltd. | Birmingham |

**Office Fittings, Furniture and Appliances.**

|                              |                                 |
|------------------------------|---------------------------------|
| Halden J., & Co., Ltd.       | 8, Albert Sq., M'chester        |
| International Multigraph Co. | 59, Holborn Viaduct, E.C.       |
| Mabie Todd & Co., Ltd.       | 79 and 80, High Holborn, W.C. 1 |

**Oil Cans.**

|                           |                   |
|---------------------------|-------------------|
| Braime T. F., & Co., Ltd. | Hunslet, Leeds    |
| Kaye Jos., & Sons, Ltd.   | Lock Works, Leeds |

**Oil Extractors.**

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Alley & Maclellan, Ltd.                | Sentinel Works, Glasgow         |
| Churchill C., & Co., Ltd.              | 9-15, Leonard St., E.C.         |
| Kenyon Alexander, & Co.                | Victoria Bridge, Manchester     |
| Ohio Body & Blower Co.                 | Cleveland, Ohio, U.S.A.         |
| Paterson Engineering Co.               | 11, Southampton Row, W.C. 1     |
| Premier Cooler & Engineering Co., Ltd. | Station Works, Shalford         |
| Princo's & Co.                         | nr. Guildford, Surrey           |
| Royles Limited                         | Sheffield                       |
| Worthington-Simpson, Ltd.              | Irlam, nr. Manchester           |
|                                        | Queen's House, Kingsway, W.C. 2 |

**Oil Filters.**

|                         |                                     |
|-------------------------|-------------------------------------|
| Griscom-Russell Co.     | 9½, West St., New York, U.S.A.      |
| Kenyon Alexander, & Co. | Victoria Bridge, Manchester         |
| Kermodes Ltd.           | 35, The Temple, Dale St., Liverpool |
| Lipscombe Fredk., & Co. | 84, Albert Buildings, E.C. 4        |
| Wells A. C., & Co.      | 102, Midland Rd., St. Pancras, N.W. |

**Oil Fuel.—(See Liquid Fuel.)****Oil Fuel Burners.**

|                |                                     |
|----------------|-------------------------------------|
| Kermodes, Ltd. | 35, The Temple, Dale St., Liverpool |
|----------------|-------------------------------------|

**Oil Mill and Refining Machinery.**

|                              |                              |
|------------------------------|------------------------------|
| Craig A. E., & Co., Ltd.     | Paisley                      |
| Manlove, Alliott & Co., Ltd. | Nottingham                   |
| Middleton Robert, & Co.      | Sheepscar F'ndry, Leeds      |
| Musgrave Brothers            | Crown Point Foundry, [Leeds] |
| Rose, Downs & Thompson, Ltd. | Old Foundry, Hull            |

**Oils.—(See Lubricants and Liquid Fuel.)****Organisation (Works).**

|                           |                                |
|---------------------------|--------------------------------|
| Kenrick & Jefferson, Ltd. | Multigraph Wks., West Bromwich |
|---------------------------|--------------------------------|

**Ore Crushing Machinery.—(See also Disintegrators, and Stonebreakers.)**

|                                  |                               |
|----------------------------------|-------------------------------|
| Allen Edgar, & Co., Ltd.         | Sheffield                     |
| Bradley Pulverizer Co.           | 37, Walbrook, E.C.            |
| Davey, Paxman & Co., Ltd.        | Colchester                    |
| Hadfields Limited                | Hecia Works, Sheffield        |
| Marsden H. R., Ltd.              | Soho Foundry, Leeds           |
| Robey & Co., Ltd.                | Lincoln                       |
| Ruston & Hornsby, Ltd.           | Grantham                      |
| Sandvick Limited                 | Chester                       |
| Smidth F. L., & Co., Ltd.        | 20, Essex St., W.C. 2         |
| Sturtevant Engineering Co., Ltd. | 147, Queen Victoria St., E.C. |

**Overalls for Engineers, &c.**

|               |                             |
|---------------|-----------------------------|
| Paisleys Ltd. | 72-96, Jamaica St., Glasgow |
|---------------|-----------------------------|

**Oxygen.—(See Gases, Oxygen, and Welding and Cutting Plant.)****Packing Cases and Packing Materials.**

|                                |                       |
|--------------------------------|-----------------------|
| Olsen, William, Ltd.           | Cogan St., Hull       |
| Southern James W., & Son, Ltd. | Store St., Manchester |

**Packing (Engine and Hydraulic).—(See also Joining Materials, Leathers (Hydraulic, &c.) and Metallic Packing.)**

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Beldam Packing & Rubber Co., Ltd.        | 29, Gracechurch St., E.C. 3       |
| Bell's United Asbestos Co., Ltd.         | 59½, Southwark St., S.B.          |
| C. & S. Asbestos Co., Ltd.               | 23 King St., E.C.                 |
| Davey, Paxman & Co., Ltd.                | Colchester                        |
| Green & Boulding, Ltd.                   | 28, New Bridge St., E.C.          |
| Gutta Percha & Rubber, Ltd.              | Toronto, Canada                   |
| Lindsay R. B., & Co.                     | 38, Mair St., Glasgow             |
| Reddaway F., & Co., Ltd.                 | Fendleton, Manchester             |
| Rose, Downs & Thompson, Ltd.             | Old Foundry, Hull                 |
| Thermofelt Ltd.                          | 66, Fenchurch St., E.C. 3         |
| Thomas & Bishop                          | 37, Tabernacle St., E.C.          |
| Turner Bros. Asbestos Co., Ltd.          | Rochdale                          |
| United States Metallic Packing Co., Ltd. | Soho Wks., Allerton Rd., Bradford |
| Walker James, & Co., Ltd.                | Lion Works, Poplar, E.            |
| Willcox W. H., & Co., Ltd.               | 32-38, Southwark St., S.E.        |
| Woodite Company                          | Mitcham Common, Surrey            |

**Paint Mill.—(See Mills—Paint, Oil, Motor, &c.)**

**Paints, Varnishes, &c.**

|                                      |                                              |
|--------------------------------------|----------------------------------------------|
| Airolstyle & Lithos, Ltd. . .        | 35, St. Bride St., E.C.                      |
| Bell's United Asbestos Co., Ltd. . . | 59, Southwark St., S.E.                      |
| Bowman Robert, & Co., Ltd. . .       | 4, St. Nicholas Buildings, Newcastle-on-Tyne |
| Cuirass Products, Ltd. . .           | 69, Victoria St., S.W. 1                     |
| Dixon's White, Ltd. . .              | Albion Wharf, Bow, E.                        |
| Graphite Products, Ltd. . .          | 218-22c, Queen's Rd. Battersea, S.W. 8       |
| Hamilton A. H., & Co. . .            | Possilpark, Glasgow                          |
| Ironite Co., Ltd. . .                | 11, Old Queen St., Westminster, S.W. 1       |

**Patent Agents.**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Alexander E. P., & Son . .         | 306, High Holborn, W.C.                 |
| Jensen & Son . .                   | 77, Chancery Lane, W.C.                 |
| King's Patent Agency, Ltd. .       | 165, Queen Victoria St., E.C. 4         |
| Radford R. Heber, Son & Squire . . | 15, St. James Row, Sheffield            |
| Raworth John E. & Moss . .         | 75, Victoria St., S.W. 1                |
| Sokal S. . .                       | 1, Great James St., Bedford Row, W.C. 1 |

**Patent Law (Manufacturers under).**

|                            |                             |
|----------------------------|-----------------------------|
| Rosser & Russell, Ltd. . . | Queen's Wharf, Hammer-smith |
|----------------------------|-----------------------------|

**Pattern Makers.**

|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| Hull General Pattern Mak- ing Works . . . | 58, Strawberry St., Dry- pool, Hull |
| Luton Engineering Pattern Co. . .         | 80a, Princess St., Luton, Beds.     |
| Whitaker, R. G., Ltd. . .                 | 22, Southwark Bridge Rd., S.E. 1    |

**Pencils.—(See Drawing Instrument.)****Perforated Metals.**

|                                          |                                           |
|------------------------------------------|-------------------------------------------|
| Harvey G. A., & Co. } (London), Ltd. . . | Greenwich Metal Works, Woolwich Rd., S.E. |
| Hudson Thomas, Ltd. . .                  | Sheepfold Bridge, Coat-bridge             |

**Permanent Way.—(See also Rails—Steel & Iron, and Railway & Contractors' Plant.)**

|                             |                                |
|-----------------------------|--------------------------------|
| Bagnall W. G., Ltd. . .     | Castle Eng. Wks., Stafford     |
| Birch John, & Co., Ltd. . . | 2, London Wall Buildings, E.C. |

**Petrol Storage.**

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| Baldwins Ltd. . .                     | 3, St. Helena Place, E.C.                 |
| Braby Fred., & Co., Ltd. . .          | Fitzroy Wks., 352-364, Euston Rd., N.W. 1 |
| Brown, Lenox & Co. (London), Ltd. . . | Poplar, E.                                |

**Petrol and its Substitutes.****Photography and Materials, &c., and Appliances for Photographic Printing and Copying Processes.**

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Halden J., & Co., Ltd. . .  | 8, Albert Sq., Manchester                       |
| Hall B. J., & Co., Ltd. . . | Chalfont Hse., Gt. Peter St., Westminster, S.W. |
| Herbert Alfred, Ltd. . .    | Coventry                                        |

**Picks, Shovels and Spades.**

|                       |                        |
|-----------------------|------------------------|
| Hadfields Limited . . | Hecla Works, Sheffield |
|-----------------------|------------------------|

**Pile Drivers.**

|                               |                                    |
|-------------------------------|------------------------------------|
| British Steel Piling Co. . .  | Billiter St., E.C. 3               |
| Browning Co. . .              | Cleveland, Ohio, U.S.A.            |
| Gibbins R. C., & Co. . .      | Berkley St., Birmingham            |
| Lidgerwood Mfg. Co. . .       | Friar's House, New Broad St., E.C. |
| Whitakers (Engineers), Ltd. . | Horsforth, Leeds                   |

**Piles, Sheet-Steel Piling and Pile Shoes.**

|                                            |                                                |
|--------------------------------------------|------------------------------------------------|
| British Steel Piling Co. . .               | Billiter St., E.C. 3                           |
| Ransome-verMehar Machin- ery Co., Ltd. . . | 14 & 16, Grosvenor Gar- dens, Westminster, S.W |

**Pins (Taper).**

|                            |                                  |
|----------------------------|----------------------------------|
| Mountford Fredk., Ltd. . . | Premo Works, Lifford, Birmingham |
|----------------------------|----------------------------------|

**Pipe Foundries.—(See also Tubes.)**

|                                          |                                                                                                                                  |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Ashmore, Benson, Pease and Co., Ltd. . . | Stockton-on-Tees (field Clay Cross Co., Ltd. . . Clay Cross, nr. Chester- Ham, Baker & Co., Ltd. . . Langley Green, Birming- ham |
| Hollingdrake H., & Son, Ltd. . .         | Stockport                                                                                                                        |
| Pulsometer Engineering Co., Ltd. . .     | Nine Elms Ironworks, Reading                                                                                                     |
| Tubi-Togni, Ltd. . .                     | Brescia, Italy                                                                                                                   |

**Pipe Screwing and Cutting Machinery.**

|                              |                   |
|------------------------------|-------------------|
| Heap Joshua, & Co., Ltd. . . | Ashton-under-Lyne |
| Maiden & Co., Ltd. . .       | Hyde, Cheshire    |
| Platt Samuel, Ltd. . .       | Wednesbury        |
| Tanges Limited . .           | Birmingham        |

**Pipes (Large and Lap Welded).**

|                      |                |
|----------------------|----------------|
| Tubi-Togni, Ltd. . . | Brescia, Italy |
|----------------------|----------------|

**Pipes (Wrought-iron and Steel).—(See also Tubes—Iron and Steel.)**

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| Aiton & Co., Ltd. . .                    | Derby                                                    |
| American Steel Export Co. .              | Woolworth Building, New York, U.S.A.                     |
| Ashmore, Benson, Pease and Co., Ltd. . . | Stockton-on-Tees                                         |
| Bellamy John, Ltd. . .                   | Millwall, E.                                             |
| Boving & Co., Ltd. . .                   | 56, Kingsway, W.C. 2                                     |
| Clayton, Son & Co., Ltd. .               | Hunslet, Leeds                                           |
| Houston J. W., & Co. . .                 | Partick Cross, Glasgow                                   |
| Howell & Co., Ltd. . .                   | Brook Steel Works, Shef- field                           |
| Mechans Limited . .                      | Scotstoun Ironworks Glasgow                              |
| Millwall Engineering Co., Ltd. . .       | 21, Panton St., S.W. 1                                   |
| Piggott Thos., & Co., Ltd. .             | Springhill, Birmingham                                   |
| Steel Pipe Company, Ltd. . .             | Kirkcaldy, N.B.                                          |
| Stewarts & Lloyds, Ltd. . .              | 41, Oswald St., Glasgow ; Broad St. Chambers, Birmingham |
| Tubi-Togni, Ltd. . .                     | Brescia, Italy                                           |

**Pistons and Piston Rings.**

|                                   |                            |
|-----------------------------------|----------------------------|
| British Piston Ring Co., Ltd. . . | Holbrook Lane, Coven- try  |
| Edmeston A., & Sons . .           | Patricroft, nr. Manch'ster |
| Lancaster & Tonge, Ltd. . .       | Pendleton, Manchester      |
| Lockwood & Carlisle, Ltd. .       | Eagle Foundry, Sheffield   |
| McNeil C., Ltd. . .               | Glasgow                    |

**Planing Machines.—(See Machine Tools.)****Plates (Dished and Flanged).**

Abbott & Co. (Newark), Ltd. Newark-on-Trent  
Hudson Thomas, Ltd. .. Coatbridge, N.B.

**Plates (Iron and Steel).**

American Steel Export Co. Woolworth Building,  
New York, U.S.A.

Beardmore Wm., & Co., Ltd. Glasgow  
Colville David, & Sons, Ltd. Motherwell, nr. Glasgow  
Dunkerley C. C. & Co., Ltd. Store St., Manchester  
Glasgow Iron & Steel Co., Ltd. Walsley  
Lanarkshire Steel Co., Ltd. Motherwell, N.B.  
Leeds Forge Co., Ltd. Leeds  
Miris Steel Co., Ltd. .. King's House, King St., E.C.

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow

Stewarts & Lloyds, Ltd. 41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham

Stringer Bros. .. West Bromwich

**Plummer Blocks.—(See also Bearings.)**

Crowther Henry, & Sons, Ltd. Cleckheaton, Yorkshire  
Platt Samuel, Ltd. Wednesbury  
Richards Geo., & Co., Ltd. Broadheath, nr. Manchester  
Smith & Grace Screw Boss Pulley Co., Ltd. Thrapston  
Taylor & Challen, Ltd. Birmingham  
Unbreakable Pulley & Mill Gearing Co., Ltd. 48, West Gorton, Manchester

**Pneumatic Tools.**

Armstrong Sir W. G., Whitworth & Co., Ltd. } 8, Great George St., S.W. 1  
Bristol Pneumatic Tools, Ltd. 140, Victoria St., Bristol  
Consolidated Pneumatic Tool Co., Ltd. Egyptian House, 170, Piccadilly, W. 1  
Coventry Ordnance Works, Ltd. Coventry  
Gillman Frank .. 62, Lightwoods Hill, Birmingham  
Globe Pneumatic Engineering Co., Ltd. 1, Victoria St., Westminster, S.W.  
Howard Pneumatic Engineering Co., Ltd. Eastbourne  
Ingersoll-Rand Co. 165, Queen Victoria St., E.C.

Stevens, Clement, Pneumatic Engineering Co., Ltd. 29, Spenser St., S.W. 1

**Poles, Posts and Standards.**

Scottish Tube Co., Ltd. 34, Robertson St., Glasgow  
Stewarts & Lloyds, Ltd. 41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham

**Portable Engines.—(See Engines—Light and Portable.)****Portable Railways.—(See Railways—Light & Portable.)****Pottery and Encaustic Tile Machinery.—(See Brick & Tile-Making Machinery.)****Pressed Steel and Metal Work.**

Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham  
Bradley & Co., Ltd. Bilston  
Danks H. & T. (Netherton), Ltd. Netherton, Dudley  
Fisher & Ludlow, Ltd. Rea St., Birmingham  
Hurst, Nelson & Co., Ltd. Motherwell, N.B.  
Leeds Forge Co., Ltd. Leeds  
London Aluminium Co., Ltd. Aston, Birmingham  
McNeil, Charles, Ltd. Glasgow  
Midland Presswork Co. Coventry  
Thompson Bros. (Bilston), Ltd. Bradley Engineering and Boiler Works, Bilston  
Thompson John, Ltd. Wolverhampton

**Presses (Hydraulic).—(See Hydraulic Presses.)****Presses (Hand and Power).**

A1 Manufacturing Co. Sunbridge Rd., Bradford  
Brett's Patent Lifter Co., Ltd. Coventry  
Fawcett, Preston & Co., Ltd. Liverpool  
Glover W. T., & Co., Ltd. Trafford Pk., Manchester  
Hands John, & Sons, Ltd. Birmingham  
Hollings & Guest, Ltd. Birmingham  
Hordern & Mason .. St. Mary's, Birmingham.  
Platt Samuel, Ltd. Wednesbury  
Pleck Foundry Co., Ltd. Walsall  
Stewart Duncan, & Co., Ltd. London Rd. Ironworks, Birmingham [Glasgow]

**Propellers.—(See Screw Propellers.)****Propellers (Air).—(See also Fans & Blowers, and Ventilators.)**

Alldays & Onions, Ltd. Birmingham  
Donkin Co., Ltd. (The Bryan) .. Chesterfield  
Electric & Ordnance Accessories Co., Ltd. Aston, Birmingham  
Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., E.C.

**Publishers.**

Arnold Edward .. 41 & 43, Maddox St., W.  
Batsford B. T., Ltd. 94, High Holborn, W.C. 1  
Chapman & Hall, Ltd. 11, Henrietta St., W.C.  
Constable A., & Co., Ltd. 10, Orange St., W.C.  
"Engineering" Ltd. 35 & 36, Bedford St., W.C.  
General Electric Review .. 77, Upper Thames St., E.C. 4  
Griffin Charles, & Co., Ltd. Exeter St., Strand, W.C.  
Howell W. R., & Co. 42, Theobalds Rd., W.C. 1  
Kenrick & Jefferson .. Multigraph Wks., West Bromwich  
Library Press, Ltd. 1, Portugal St., Buildings, Portugal St., W.C. 2  
Lockwood, Crosby & Son .. 7, Stationers' Hall Ct., E.C.  
Longmans, Green & Co. 39, Paternoster Row, E.C.  
Macmillan & Co., Ltd. St. Martin's St. W.C. 2  
Pitman Sir Isaac, & Sons, Ltd. 1, Amen Corner, E.C. 4  
School of Accountancy .. 2, West Regent St., Glasgow  
Scott, Greenwood & Son .. 8, Broadway, Ludgate Hill, E.C. 4  
Selwyn James, & Co., Ltd. 20, Essex St., W.C. 2  
Spon E. & F. N., Ltd. 57, Haymarket, S.W.



**Pulley Blocks.**

|                               |                              |
|-------------------------------|------------------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester          |
| Bullivant & Co., Ltd.         | 72, Mark Lane, E.C.          |
| Gibbins R. C., & Co.          | Berkley St., Birmingham      |
| Holt & Willetts               | Cradley Heath                |
| Tangyes Limited               | Birmingham                   |
| Vaughan Crane Co.             | Openshaw, Manchester         |
| Youngs                        | Ryland St. Works, Birmingham |

**Pulleys (Cast Iron).**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Bodley Brothers & Co.                       | Exeter                      |
| Crofts (Engineers), Ltd.                    | Empire Works, Bradford      |
| Fraser, Douglas, & Sons, Ltd.               | Arbroath                    |
| Jardine, J.                                 | Deering St., Nottingham     |
| Platt Samuel, Ltd.                          | Wednesbury                  |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. M'chester   |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                   |
| Taylor & Challen, Ltd.                      | Birmingham                  |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester |
| Wigglesworth F. & Co., Ltd.                 | Shipley, near Bradford      |

**Pulleys (Wood).****Pulleys (Wrought Iron and Steel).**

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Barry Henry, & Co., Ltd.                    | Aberdeen                             |
| Crofts (Engineers), Ltd.                    | Empire Works, Bradford               |
| Crowther Henry & Sons, Ltd.                 | Cleckheaton, Yorkshire               |
| Douglas, Lawson & Co.                       | Birstall, near Leeds                 |
| Fraser, Douglas, & Sons, Ltd.               | Arbroath                             |
| Hudswell, Clarke & Co., Ltd.                | Railway Foundry, Leeds               |
| Jardine, J.                                 | Deering St., Nottingham              |
| Platt Samuel, Ltd.                          | Wednesbury                           |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. M'chester            |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                            |
| Stothert & Pitt, Ltd.                       | Bath                                 |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester          |
| Wigglesworth F., & Co., Ltd.                | Clutch Works, Shipley, near Bradford |

**Pulverizers.—(See also Disintegrators.)**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Allen Edgar, & Co., Ltd.           | Sheffield                               |
| Bradley Pulverizer Co.             | 37, Walbrook, E.C.                      |
| Fuller-Lehigh Co.                  | Fullerton, Pa., U.S.A.                  |
| Jeffrey Manufacturing Co.          | Columbus, Ohio, U.S.A.                  |
| Patent Lightning Crusher Co., Ltd. | 14A, Rosebery Av., Gray's Inn Rd., W.C. |

**Pumps (Air).—(See Air Pumps.)****Pumps (Centrifugal).**

|                                  |                                      |
|----------------------------------|--------------------------------------|
| Allen W. H. Sons, & Co., Ltd.    | Bedford                              |
| Bailey Sir W. H., & Co., Ltd.    | Salford, Manchester                  |
| Boving & Co., Ltd.               | 56, Kingsway, W.C. 2                 |
| British Electric Plant Co., Ltd. | 66, Carrick St., Glasgow             |
| Brooke Tool Mfg. Co., Ltd.       | Belgrave Rd., Birmingham             |
| Campbell & Calderwood            | Soho Works, Paisley, Scotland        |
| Collins & Co.                    | Cheetham Hill, Manchester            |
| Drysdale & Co., Ltd.             | Bon Accord Wks., Yorker, Glasgow, W. |
| Entwistle & Gass, Ltd.           | Bolton                               |

**Pumps (Centrifugal)—Continued.**

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Escher, Wyss & Co.                   | 100, Victoria St., S.W.         |
| Gunther W., & Sons                   | Central Works, Oldham           |
| Gwynnes, Ltd.                        | Hammersmith Ironwks. W.         |
| Hathorn, Davey & Co., Ltd.           | Leeds                           |
| Holden & Brooke, Ltd.                | West Gorton, Manchester         |
| Lobnitz & Co., Ltd.                  | Renfrew                         |
| Paul Matthew, & Co., Ltd.            | Levenford Works, Dum-barton     |
| Pulsometer Engineering Co., Ltd.     | Nine Elms Ironworks, Reading    |
| Rees Roturbo Manufacturing Co., Ltd. | Wolverhampton, Eng.             |
| Ruston & Hornsby, Ltd.               | Sheaf Ironwks., Lincoln         |
| Simons W., & Co., Ltd.               | Renfrew, N.E.                   |
| Sulzer Brothers                      | 31, Bedford Sq., W.C. 1         |
| Tangyes Limited                      | Birmingham                      |
| Worthington-Simpson, Ltd.            | Queen's House Kings-way, W.C. 2 |

**Pumps (Colonial).**

|                                            |                                    |
|--------------------------------------------|------------------------------------|
| Bailey Sir W. H., & Co., Ltd.              | Salford, Manchester                |
| Caird & Rayner                             | 777, Commercial Rd., Limehouse, E. |
| Evans Joseph, & Sons (Wolverhampton), Ltd. | Wolverhampton                      |
| Pulsometer Engineering Co., Ltd.           | Nine Elms Ironworks, Reading       |
| Weir G. & J., Ltd.                         | Cathcart, Glasgow                  |
| Worthington-Simpson, Ltd.                  | Queen's House, Kings-way, W.C.     |

**Pumps (Donkey).**

|                                            |                                |
|--------------------------------------------|--------------------------------|
| Bailey Sir W. H., & Co., Ltd.              | Salford, Manchester            |
| Caird & Rayner                             | 777, Commercial Rd., E.        |
| Cameron John, Ltd.                         | Salford                        |
| Carruthers J. H., & Co., Ltd.              | Poldmadie Ironwks., Glas-gow   |
| Clarke, Chapman & Co., Ltd.                | Gateshead-on-Tyne              |
| Evans Joseph, & Sons (Wolverhampton), Ltd. | Wolverhampton                  |
| Friedenthals, Ltd.                         | Preston                        |
| Hall J. P., & Sons                         | Peterborough                   |
| Hathorn, Davey & Co., Ltd.                 | Leeds                          |
| Mumford A. G., Ltd.                        | Colchester                     |
| Piggott Thos., & Co., Ltd.                 | Springhill, Birmingham         |
| Pulsometer Engineering Co., Ltd.           | Nine Elms Ironworks, Reading   |
| Robey & Co., Ltd.                          | Lincoln                        |
| Shore Thos., & Sons, Ltd.                  | Etruria, Stoke-on-Trent        |
| Tangyes Limited                            | Birmingham                     |
| Worthington-Simpson, Ltd.                  | Queen's House, Kings-way, W.C. |

**Pumps and Pumping Machinery.**

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| Aldrich Pump Co.                    | Allentown, Pa., U.S.A.                |
| Allen W. H. Son, & Co., Ltd.        | Bedford                               |
| American Steel Export Co.           | Woolworth Building, New York, U.S.A.  |
| Bailey Sir W. H., & Co., Ltd.       | Salford, Manchester                   |
| Barclay Andrew, Sons & Co., Ltd.    | Caledonia Wks., Kilmar-nock, Scotland |
| Berry Henry, & Co., Ltd.            | Croydon Works, Leeds                  |
| Bever, Forling & Co., Ltd.          | Bradford                              |
| Brooke Tool Manufacturing Co., Ltd. | Belgrave Rd., Birmingham              |
| Brotherhood Peter, Ltd.             | Peterborough                          |
| Caird & Rayner                      | 777, Commercial Rd., E.               |

**Pumps and Pumping Machinery.—Continued.**

|                                                  |                                             |
|--------------------------------------------------|---------------------------------------------|
| Cameron John, Ltd.                               | Oldfield Rd. Ironworks,                     |
| Campbell Gas Engine Co., Ltd.                    | [Salford]                                   |
| Carruthers J. H. & Co., Ltd.                     | Halifax, England                            |
| Chaplin Alex. & Co.                              | Polmadie Ironwks., Glas-                    |
| Church Street Machinery & Engineering Corp.      | Govan, Glasgow [Gow                         |
| Clarke, Chapman & Co., Ltd.                      | 30, Church St., New                         |
| Davey, Paxman & Co., Ltd.                        | York, U.S.A.                                |
| Davy Brothers, Ltd.                              | Gateshead-on-Tyne                           |
| Dawson & Downie, Ltd.                            | Colchester                                  |
| De Laval Steam Turbine Co.                       | Sheffield                                   |
| Downton, Taylor & Co.                            | Elgin Works, Clydebank                      |
| Drum Engineering Co., Ltd.                       | 150, Southampton Row,                       |
|                                                  | W.C.                                        |
|                                                  | Hamilton, Scotland                          |
|                                                  | 28, Humboldt St.,                           |
|                                                  | Bradford                                    |
| Drysdale & Co., Ltd.                             | Bon Accord Wks., Yoker,                     |
| East Ferry Road Engineer-<br>ing Works Co., Ltd. | [Glasgow, W.                                |
| Ellison W. T., & Co., Ltd.                       | Millwall, E.                                |
|                                                  | Irlams - o' - th' - Height,                 |
|                                                  | Manchester                                  |
|                                                  | 109, Victoria St., S.W.                     |
| Escher, Wyss & Co.                               | Wolverhampton                               |
| Evans Joseph, & Sons (Wol-<br>verhampton), Ltd.  | Liverpool                                   |
| Fawcett, Preston & Co., Ltd.                     | New Bridge St. House,                       |
| Feuerbeerd's Rotors<br>(British Empire), Ltd.    | New Bridge St., E.C. 4                      |
| Fleming & Ferguson, Ltd.                         | Paisley, N.B.                               |
| Friedenthal, Ltd.                                | River Engine Wks., Preston                  |
| Fulford Pump Co.                                 | Cincinnati, Ohio, U.S.A.                    |
| Fullerton, Hodgart &<br>Barclay, Ltd.            | Vulcan Foundry and<br>Engine Works, Paisley |
| Glenfield & Kennedy, Ltd.                        | Kilmarnock, N.B.                            |
| Grant, Ritchie & Co., Ltd.                       | Kilmarnock                                  |
| Gwynnes, Ltd.                                    | Hammersmith Ironwks.,<br>W.                 |
| Hall J. P., & Sons, Ltd.                         | Peterborough                                |
| Hamworthy Engineering<br>Co., Ltd.               | 76, Victoria St., S.W.                      |
| Hathorn, Davey & Co., Ltd.                       | Leeds                                       |
| Hayward, Tyler & Co., Ltd.                       | 99, Queen Victoria St., E.C.                |
| Hollings & Guest, Ltd.                           | Thimble Mill Lane, Bir-<br>mingham          |
| Hughes & Lancaster                               | 16, Victoria St., S.W.                      |
| Hydraulic Gears Ltd.                             | Hammersmith, W. 6                           |
| Kirkaldy, John, Ltd.                             | 101, Leadenhall St., E.C. 3                 |
| Lancaster & Tonge, Ltd.                          | Pendleton, nr. Manchester                   |
| Lee, Howl & Co., Ltd.                            | Tipton, Staffs.                             |
| Lees T. & R.                                     | Hollinwood, nr. Man-<br>chester             |
| Lister R. A., & Co., Ltd.                        | Dursley                                     |
| Lunken Co., Ltd.                                 | 35, Great Dover St., S.B.                   |
| Manlove, Allott & Co., Ltd.                      | Nottingham                                  |
| Mason Regulator Co.                              | Boston, Mass., U.S.A.                       |
| Merryweather & Sons, Ltd.                        | 65, Long Acre, W.C.                         |
| Mumford A. G., Ltd.                              | Colchester                                  |
| Musgrave Bros.                                   | Leeds                                       |
| Nichols Pump & Engineer-<br>ing Co., Ltd.        | Northallerton, Yorks.                       |
| Parsons C. A., & Co., Ltd.                       | Newcastle-on-Tyne                           |
| Paul Matthew, & Co., Ltd.                        | Levenford Wks., Dumbar-<br>ton              |
| Pearn Frank, & Co., Ltd.                         | Manchester                                  |
| Piggott Thos., & Co., Ltd.                       | Springhill, Birmingham                      |
| Pleck Foundry Co., Ltd.                          | Walsall                                     |
| Prattich Bros.                                   | Denton Ironwks., Carlisle                   |
| Pulsometer Eng. Co., Ltd.                        | Nine Elms Ironworks,<br>Reading             |
| Ransomes & Rapier, Ltd.                          | Ipswich                                     |

**Pumps and Pumping Machinery.—Continued.**

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| Ransomes, Sims & Jefferies,<br>Ltd.             | Ipswich                                 |
| Rees Roturbo Manufac-<br>turing Company, Ltd.   | Wolverhampton, Eng.                     |
| Rice & Co. (Leeds), Ltd.                        | Elland Rd., Leeds                       |
| Robey & Co., Ltd.                               | Lincoln                                 |
| Ruston & Hornsby, Ltd.                          | Grantham                                |
| Sandycroft Limited                              | Chester                                 |
| Shore Thos., & Sons, Ltd.                       | Bturiia, Stoke-on-Trent                 |
| Stothert & Pitt, Ltd.                           | Bath                                    |
| Sulzer Brothers                                 | 31, Bedford Sq., W.C. 1                 |
| Tangyes Limited                                 | Birmingham                              |
| Thornycroft J. I., & Co., Ltd.                  | 10, Grosvenor Place,<br>S.W. 1          |
| Turnbull Alex., & Co., Ltd.                     | Bishopbriggs, Glasgow                   |
| Uskside Iron Works                              | Newport, Mon.                           |
| Warner Robert, & Co.<br>(Engineers), Ltd.       | 14-16, Cockspur St.,<br>S.W. 1          |
| Weir G. & J., Ltd.                              | Cathcart, Glasgow                       |
| Westinghouse Brake Co.,<br>Ltd.                 | York Rd., King's Cross,<br>N.           |
| Willcox W. H., & Co., Ltd.                      | 32 to 38, Southwark St.,<br>S.E.        |
| Worthington - Simpson,<br>Ltd.                  | Queen's House, Kings-<br>way, W.C. 2    |
| <b>Pumps (Turbine).</b>                         |                                         |
| Allen W. H. Sons & Co., Ltd.                    | Bedford                                 |
| Boving & Co., Ltd.                              | 56, Kingsway, W.C. 2                    |
| British Electric Plant Co.,<br>Ltd.             | 66, Carrick St., Glasgow                |
| Drysdale & Co., Ltd.                            | Bon-Accord Wks., Yoker,<br>Glasgow, W.  |
| Metropolitan-Vickers Elec-<br>trical Co., Ltd.  | Trafford Park, Man-<br>chester          |
| Pulsometer Engineering<br>Co., Ltd.             | Nine Elms Ironworks,<br>Reading         |
| Rees Roturbo Manufac-<br>turing Company, Ltd.   | Wolverhampton, Eng.                     |
| <b>Pumps (Vacuum).</b>                          |                                         |
| Blair, Campbell & McLean,<br>Ltd.               | Woodville St., Govan,<br>Glasgow        |
| Broom & Wade, Ltd.                              | High Wycombe                            |
| Burckhardt Engineering<br>Works                 | 26, Victoria St., S.W. 1                |
| Consolidated Pneumatic<br>Tool Co., Ltd.        | Egyptian House, Picca-<br>dilly, W. 1   |
| Evans Joseph, & Sons (Wol-<br>verhampton), Ltd. | Wolverhampton                           |
| Mirreles Watson Co., Ltd.                       | Scotland St., Glasgow                   |
| Reavell & Co., Ltd.                             | Ipswich                                 |
| Siebe, Gorman & Co., Ltd.                       | Neptune Works, S.E.                     |
| Wheeler Condenser & En-<br>gineering Co.        | Carteret, N.J., U.S.A.                  |
| <b>Punching and Shearing Machines.</b>          |                                         |
| Berry F., & Sons                                | Calderdale Ironworks,<br>Sowerby Bridge |
| Berry Henry, & Co., Ltd.                        | Croydon Works, Leeds                    |
| Cameron John, Ltd.                              | Oldfield Rd. Ironworks,<br>Salford      |
| Craig & Donald, Ltd.                            | Johnstone, nr. Glasgow                  |
| Davy Brothers, Ltd.                             | Sheffield                               |
| Farrar Boiler Works, Ltd.                       | Lincoln                                 |
| Hands John, & Sons, Ltd.                        | Cardigan Wks., Birming-<br>ham          |
| Hordern & Mason                                 | St. Mary's, Birmingham.                 |

**Punching and Shearing Machines—Continued.**

Musgrave Bros. . . . . Leeds  
 Norbom Engineering Co. . . . . Darby, Pa., U.S.A.  
 Peck Foundry Co., Ltd. . . . . Walsall  
 Pollock, Macnab & Highgate . . . . . Shettleston, Glasgow  
 Rice & Co. (Leeds), Ltd. . . . . Elland Rd., Leeds  
 Ryerson Joseph T., & Son . . . . . Chicago, Ill., U.S.A.  
 Smith Hugh, & Co., Ltd. . . . . Possil Works, Glasgow  
 Tangyes Limited . . . . . Birmingham  
 Walber W. A., & Co. . . . . 38, Victoria St., S.W.

**Pyrometers and Thermometers.**

Alexander George H. . . . . Coleshill St., Birmingham  
 Budenberg Gauge Co., Ltd. . . . . Broadheath, nr. Manchester  
 Cambridge & Paul Instrument Co., Ltd. . . . . Cambridge  
 Coats Machine Tool Co., Ltd. . . . . 14, Palmer St., S.W. 1  
 Engineering Supplies, Ltd. . . . . Suffolk House, 5, Laurence Pountney Hill, E.C.4  
 Foster Instrument Co. . . . . Letchworth, Herts  
 Horne Engineering Co. . . . . St. Peters Lane, Glasgow  
 Incandescent Heat Co., Ltd. . . . . British Mills, Smethwick, Birmingham  
 Negretti & Zambra . . . . . 38, Holborn Viaduct, E.C.  
 Shore Instrument & Mfg. Co. . . . . New York  
 Siemens Bros., & Co., Ltd. . . . . Woolwich, S.E. 18  
 Sugden T., Ltd. . . . . 180, Fleet St., E.C.  
 Uehling Instrument Co. . . . . 2,020 Empire Building, New York, U.S.A.

**Rail Benders.**

Berry Henry, & Co., Ltd. . . . . Hunslet, Leeds  
 Gibbins R. C., & Co. . . . . Berkley St., Birmingham  
 Holt & Willeits . . . . . Cradley Heath  
 Tangyes Limited . . . . . Birmingham  
 Youngs . . . . . Birmingham

**Rail Lifters.**

Gibbins R. C., & Co. . . . . Berkley St., Birmingham  
 Youngs . . . . . Ryland St. Works, Birmingham

**Rails (Steel and Iron).—(See also Permanent Way, and Switches & Crossings.)**

Camell Laird & Co., Ltd. . . . . Sheffield  
 Colville David, & Sons, Ltd. . . . . Motherwell, nr. Glasgow  
 Partington Steel & Iron Co., Ltd. . . . . Irlam, Manchester  
 Steel Co. of Scotland, Ltd. . . . . 23, Royal Exchange Square, Glasgow  
 White Rd., & Sons . . . . . Widnes, Lancs

**Railway and Contractors' Plant.**

Alley & MacLellan, Ltd. . . . . Sentinel Works, Glasgow  
 Bagnall W. G., Ltd. . . . . Castle Engine Works, Manchester  
 Beyer, Peacock & Co., Ltd. . . . . [Stafford  
 Birch John, & Co., Ltd. . . . . 2, London Wall Bldg., E.C.  
 Brown John & Co., Ltd. . . . . Sheffield  
 Browning Co. . . . . Cleveland, Ohio, U.S.A.  
 Bucyrus Co. . . . . 13, Victoria St., S.W.  
 Consolidated Construction Co., Ltd. . . . . 9, Cloak Lane, Cannon St., E.C. 4  
 Firth Thos., & Sons, Ltd. . . . . Norfolk Works, Sheffield  
 Fowler J., & Co. (Leeds), Ltd. . . . . Leeds  
 Gibbins R. C., & Co. . . . . Berkley St., Birmingham

**Railway and Contractors' Plant—Continued.**

Hadfields Limited. . . . . Hecla Works, Sheffield  
 Heenan & Froude, Ltd. . . . . Worcester  
 Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
 Leeds Forge Co., Ltd. . . . . Leeds  
 Lidgerwood Mfg. Co. . . . . Friar's House, New Broad St., E.C.  
 McLachlan & Co., Ltd. . . . . Darlington.  
 MacLellan P. & W., Ltd. . . . . Clutha Works, Glasgow  
 Rubery, Owen & Co. . . . . Darlaston, S. Staffs.  
 Stone J. B., & Co., Ltd. . . . . 125, Finsbury Pavement, [E.C.  
 Summerson Thomas, & Sons, Ltd. . . . . Darlington  
 Western Wheeled Scraper Co. . . . . Aurora, Illinois, U.S.A.  
 Wotham, Bates & Goode, Inc. . . . . 3, London Wall Buildings, E.C.

**Railway Rolling Stock.—(See Carriage, Wagon and Engine—Locomotive.)****Railway Signals.**

McKenzie & Holland, Ltd. . . . . 53, Victoria St., S.W.  
 McKenzie, Holland & Westinghouse Power Signal Co., Ltd. . . . . 58, Victoria St., S.W.  
 Siemens Bros., & Co., Ltd. . . . . Woolwich, S.E. 18

**Railway Wheels.—(See Wheels—Railway.)****Railways (Light and Portable).**

Armstrong Sir W. G., } 8, Great George St.,  
 Whitworth & Co., Ltd. } S.W. 1  
 Bagnall W. G., Ltd. . . . . Stafford [E.C.  
 Birch John, & Co., Ltd. . . . . 2, London Wall Buildings,  
 Fowler J., & Co. (Leeds), Ltd. . . . . Leeds  
 Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
 McLachlan & Co., Ltd. . . . . Darlington  
 Motor Rail & Tram Car Co. . . . . Bedford

**Railways (Rack).**

Camell Laird & Co., Ltd. . . . . Sheffield

**Rawhide Wheels.—(See Wheels—Rawhide.)****Reducing Valves.—(See Valves—Reducing.)****Refractory Materials.**

Bradley & Foster, Ltd. . . . . 105, Colmore Row, Birmingham

**Refrigerating Machinery.—(See also Ice-Making Machines.)**

American Steel Export Co. . . . . Woolworth Building, New York, U.S.A.  
 Brotherhood, Peter, Ltd. . . . . Peterborough  
 Hall J. & E., Ltd. . . . . Dartford Ironworks, Kent  
 Haslam Foundry & Engineering Co., Ltd. . . . . Union Foundry, Derby  
 Liverpool Refrigeration Co., Ltd. . . . . Colonial House, Liverpool  
 Pontifex & Wood, Ltd. . . . . pool  
 Pulsometer Engineering Co., Ltd. . . . . Union Foundry, Derby  
 Seagers Ltd. . . . . Reading  
 Sterne L., & Co., Ltd. . . . . Crown Ironworks, Glasgow  
 West H. J. & Co., Ltd. . . . . 72-74, Grays Inn Rd., W.C. 1

**Reversing Gears (Motor Boat).**

Thornycroft J.I., & Co., Ltd. . . . . 10, Grosvenor Place, S.W. 1

**Rice-Dressing Machinery.**

Douglas &amp; Grant .. .. Kirkcaldy, N.B.

**Riveting Machines.**

Arrol Sir William, &amp; Co., Ltd. Dalmarnock Ironworks, Bridgeton, Glasgow

Berry Henry, &amp; Co., Ltd. Croydon Works, Leeds

Consolidated Pneumatic Tool Co., Ltd. } Egyptian House, 170, Piccadilly, W. 1

Drysedale &amp; Co., Ltd. .. Bon Accord Wks., Yorker, Glasgow, W.

Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., Westminster, S.W.

Hollings &amp; Guest, Ltd. .. Thimble Mill Lane, Birmingham

Musgrave Bros. .. Leeds

Rice &amp; Co. (Leeds), Ltd. .. Elland Rd., Leeds

Selson Engineering Co., Ltd. 85, Qn. Victoria St., E.C.

Shuster, F. B., Co. .. Newhaven, Conn., U.S.A.

Smith Hugh, &amp; Co., Ltd. Fossil Works, Glasgow

**Rivets.—(See Bolts, Rivets, &c.)****Road Rollers (Steam, &c.).**

Agricultural &amp; General Engineers, Ltd. .. } Central House, Kingsway, W.C. 2

Barford &amp; Perkins, Ltd. Peterborough

Fowler J., &amp; Co. (Leeds), Ltd. Leeds

Marshall, Sons &amp; Co., Ltd. Gainsborough

Ruston &amp; Hornsby, Ltd. .. Sheaf Ironworks, Lincoln

**Rockbreaker (Mechanical, under Water).**

Lobnitz &amp; Co., Ltd. .. Renfrew, Scotland

**Rock Drills.—(See also Boring Tools & Machinery, and Well Engineers.)**

Bristol Pneumatic Tools, Ltd. .. 140, Victoria St., Bristol

Consolidated Pneumatic Tool Co., Ltd. .. } Egyptian House, 170, Piccadilly, W. 1

Ingersoll-Rand Co. .. 165, Queen Victoria St., E.C.

**Roller Bearings.—(See Bearings—Ball & Roller.)****Rolling Mill Machinery.—(See Iron and Steel Works, Plant for.)****Rolling Mills (for Metals).—(See Iron and Steel Works, Plant for.)****Rolls (Chilled and Grain).**

Bayliss, Jones &amp; Bayliss, Ltd. .. .. Wolverhampton

**Roofing Material.**

Anderson D., &amp; Son, Ltd. Lagan Works, Belfast

Anderson-Grice Co., Ltd. Carnoustie, Scotland

British Everite &amp; Asbestlite Works, Ltd. .. 29, Peter St., Manchester

British Fibrocement Works Graves &amp; Co., Ltd. .. 14, Water St., Liverpool

**Roofs (Iron, Steel and Zinc).—(See Structural Engineering.)****Rope Tramways.**

Aerial Ropeway Transporters, Ltd. .. } Craven House, Kingsway, W.C. 2

British Ropeway Engineering Co., Ltd. .. 7, Mincing Lane, E.C. 3

Bullivant &amp; Co., Ltd. .. 72, Mark Lane, E.C.

Henderson John M., &amp; Co. Aberdeen, Scotland

Lidgerwood Mfg. Co. .. Friars House, New Broad St., E.C.

White Rd., &amp; Sons .. Widnes, Lancs.

**Ropes (Driving).**

Hart Thomas, Ltd. .. Blackburn, England

Kenyon Wm., &amp; Sons, Ltd. Dukinfield, Manchester

**Ropes (Wire).—(See Wire & Wire Rope Makers.)****Rubber Machinery**

Entwistle &amp; Gass, Ltd. .. Bolton

**Runways.**

Higginbottom &amp; Mannock, Ltd. .. } Crown Ironworks, West Gorton, Manchester

Holt &amp; Willelts .. .. Lion Wks., Cradley Heath

Pickering, Ltd. .. Stockton-on-Tees

Strachan &amp; Henshaw, Ltd. Bristol

Vaughan Crane Co., Ltd. .. Openshaw, Manchester

**Rust Preventive.**

Stilaxite Co. .. .. 4, Hanover St., W. 1

**Safes.****Sand Blast Machines.**

Tilghman's Patent Sand Blast Co., Ltd. .. } Broadheath, near Manchester

**Sand (Moulding).**

Mead Henry &amp; Co., Ltd. .. Princes Dock Chambers, Hull

**Sanitary Appliances.**

Glenfield &amp; Kennedy, Ltd. Kilmarnock, N.B.

Hughes &amp; Lancaster .. 47, Victoria St., S.W.

**Saw Makers.**

Allen Edgar, &amp; Co., Ltd. .. Sheffield

Atkins E. C., &amp; Co., Inc. Indianapolis, Indiana, U.S.A.

Beardshaw J., &amp; Son, Ltd. Sheffield

Chambers, Scott &amp; Co., Ltd. Motherwell

Davy Brothers, Ltd. Sheffield

Firth Thos., &amp; Sons, Ltd. .. Norfolk Works, Sheffield

Hampton &amp; Beebe, Ltd. Wednesbury, South Staffs.

Pickles John, &amp; Son .. Hebden Bridge, Yorks

**Saw Mill Machinery.—(See Wood-Working Machinery.)****Scientific Instruments.—(See Boiler Mountings, Drawing Instruments, and Pyrometers & Thermometers.)****Scrap Metal.**

Adams &amp; Benson, Ltd. .. Albion, West Bromwich

Bradley &amp; Foster, Ltd. .. 105, Colmore Row, Birmingham

Buyers of Scrap Metal, Ltd. Glyn St., S.E. 11.

Dunkerley C. C. &amp; Co., Ltd. Store St., Manchester

Harris F. W. (Birmingham), Ltd. .. 132, Hurst St., Birmingham

**Screens.****Screw Propellers and Propeller Blades.**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Billington & Newton, Ltd.                  | Longport, Stoke-on-Trent               |
| Brown John, & Co., Ltd.                    | Sheffield                              |
| Firth Thos., & Sons, Ltd.                  | Norfolk Works, Sheffield               |
| Friedenthal, Ltd.                          | River Eng. Wks., Preston               |
| Hadfields Limited.                         | Hecla Works, Sheffield                 |
| North-Eastern Marine Engineering Co., Ltd. | Northumberland Works, Wallsend-on-Tyne |
| Ross & Duncan                              | Glasgow                                |
| Steven & Struthers                         | Kelvinhaugh, Glasgow                   |
| Thornycroft J. I., & Co., Ltd.             | Southampton                            |
| Vickers Limited                            | Sheffield                              |

**Screwing Machines.**

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Armstrong Mfg. Co.                         | 338, Knowlton St., Bridgeport, Conn., U.S.A. |
| Armstrong Sir W. G., Whitworth & Co., Ltd. | Openshaw, Manchester                         |
| Chatwin Thos., Ltd.                        | Gt. Tindal St., Birmingham                   |
| Daniell S. A., Ltd.                        | Edward St., Parade, Birmingham               |
| Heap Joshua, & Co., Ltd.                   | Ashton-under-Lyne                            |
| Lunts, Ltd.                                | Halford St., Leicester                       |
| Maiden & Co., Ltd.                         | Hyde, Cheshire                               |
| Nathan, H. L.                              | 16, Regent Place, Birmingham                 |
| Niles-Bement Pond Co.                      | Hamilton, Ohio, U.S.A.                       |
| Platt Samuel, Ltd.                         | Wednesbury                                   |
| Shanks Thomas, & Co.                       | Johnstone                                    |
| Tangyes Limited                            | Birmingham                                   |
| Wharton H., Ltd.                           | Station Rd., Reddish, Stockport              |
| Winn Charles, & Co.                        | Granville Place, Birmingham                  |

**Screws, &c.**

|                  |                       |
|------------------|-----------------------|
| Stokes A., & Co. | Green St., Birmingham |
|------------------|-----------------------|

**Search Lights.**

|                             |                   |
|-----------------------------|-------------------|
| Clarke, Chapman & Co., Ltd. | Gateshead-on-Tyne |
|-----------------------------|-------------------|

**Second-hand Tools, &c.**

|                           |                               |
|---------------------------|-------------------------------|
| Explosives Trades, Ltd.   | 6, Cavendish Sq., W. 1        |
| Hurst, Nelson & Co., Ltd. | Motherwell, N.B.              |
| Jennings Edward J.        | Westwalls, Newcastle-on-Tyne  |
| McNab John                | Mary St., Hyde                |
| Riddle John H., Ltd.      | 40, St. Enoch Square, Glasgow |
| Wake John F.              | Darlington                    |
| Ward Thos., W., Ltd.      | Albion Works, Sheffield       |

**Separators, Magnets, &c.**

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Consolidated Pneumatic Tool Co., Ltd. | Egyptian House, 170, Piccadilly W. |
| Igranic Electric Co., Ltd.            | 147, Qn. Victoria St., E.C.        |
| Rapid Magnetising Machine Co., Ltd.   | 52, Lombard St., Birmingham        |
| Westminster Tool & Electric Co.       | 116, Putney Bridge Rd., S.W. 15    |

**Shafting and Shaft Fittings.—(See also Clutches—Friction, Couplings—Shaft, and Plummer Blocks & Bearings.)**

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| Armstrong Sir W. G.                         | 8, Great George St. S.W. 1               |
| Whitworth & Co., Ltd.                       | S.W. 1                                   |
| Barry, Henry & Co., Ltd.                    | Aberdeen                                 |
| Beardmore W., & Co., Ltd.                   | Glasgow                                  |
| Bessmer Henry, & Co., Ltd.                  | Sheffield                                |
| Bodley Bros. & Co.                          | Old Quay Foundry, Exeter                 |
| Brown John, & Co., Ltd.                     | Sheffield                                |
| Columbia Steel & Engineering Co., Ltd.      | Bank Chambers, 329, High Holborn, W.C. 1 |
| Craven Brothers (Manchester), Ltd.          | Vauxhall Wks., Reddish, Stockport        |
| Crofts (Engineers), Ltd.                    | Empire Works, Bradford                   |
| Crowther Henry, & Sons, Ltd.                | Cleckheaton, Yorkshire                   |
| Douglas, Lawson & Co.                       | Birstall, near Leeds                     |
| Electro-Mechanical Brake Co., Ltd.          | West Bromwich                            |
| Entwistle & Gass, Ltd.                      | Bolton                                   |
| Escher, Wyss & Co.                          | 109, Victoria St., S.W.                  |
| Fife Forge Co., Ltd.                        | Kirkcaldy, Scotland                      |
| Finnery George, & Co.                       | Berkley St., Birmingham                  |
| Firth Thos., & Sons, Ltd.                   | Norfolk Works, Sheffield                 |
| Govan Shafting & Engineering Co., Ltd.      | Govan Glasgow                            |
| Hadfields Limited                           | Hecla Works, Sheffield                   |
| Hampton & Beebe, Ltd.                       | Wednesbury, South Staffs.                |
| Hawthorn R. & W., Leslie & Co., Ltd.        | Newcastle-on-Tyne                        |
| Hudswell, Clarke & Co., Ltd.                | Leeds                                    |
| Jardine John                                | Deering St., Nottingham                  |
| Kirkstall Forge Co., Ltd.                   | Leeds                                    |
| Platt Samuel, Ltd.                          | Wednesbury                               |
| Power Plant Co., Ltd.                       | West Drayton, Middlesex                  |
| Richards Geo., & Co., Ltd.                  | Broadbeath, nr. Manchester               |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                                |
| Taylor & Challen, Ltd.                      | Birmingham                               |
| Trier Bros., Ltd.                           | 36, Victoria St., Westminster, S.W. 1    |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester              |
| Vickers Limited                             | Sheffield                                |
| Wigglesworth F., & Co., Ltd.                | Shipley, near Bradford                   |
| Yates & Thom, Ltd.                          | Canal Works, Blackburn                   |

**Shearing Machines.—(See Punching & Shearing Machines.)****Sheerlegs.**

|                          |             |
|--------------------------|-------------|
| Day, Summers & Co., Ltd. | Southampton |
|--------------------------|-------------|

**Sheet Metal Work, and Machinery.**

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Boulton & Paul, Ltd.                     | Norwich                          |
| Bradley & Co., Ltd.                      | Bilston                          |
| Braine T. F., & Co., Ltd.                | Hunslet, Leeds                   |
| Heeley Silver Rolling & Wire Mills, Ltd. | Sheffield                        |
| London Aluminium Co., Ltd.               | Aston, Birmingham                |
| Standard Piston Ring and Engineering Co. | Premier Wks., Don Rd., Sheffield |
| Taylor & Challen, Ltd.                   | Birmingham                       |

**Sheet-Metal Work (Welded).**

|                                   |                                               |
|-----------------------------------|-----------------------------------------------|
| Ash Joseph, & Son                 | Rea St. South, Birmingham                     |
| Clarke George & Sons (Hull), Ltd. | Waterhouse Lane, Hull                         |
| London Aluminium Co., Ltd.        | Aston, Birmingham                             |
| Thompson Bros. (Bilston), Ltd.    | Bradley Engineering and Boiler Works, Bilston |

**Shipbuilders.—(See also Barges & Lighters, Dredgers—Suction, Motor Boats, and Torpedo Boats.)**

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Allan Shipbuilding Co., Ltd.               | Troon, N.B.                                  |
| Armstrong Sir W. G., Whitworth & Co., Ltd. | 8, Great George St. S.W. 1                   |
| Beardmore W., & Co., Ltd.                  | Glasgow                                      |
| Brown John, & Co., Ltd.                    | Sheffield                                    |
| Burmeister & Wain, Ltd.                    | Copenhagen, Denmark                          |
| Cammell Laird & Co., Ltd.                  | Sheffield                                    |
| Campbell & Calderwood                      | Soho Works, Paisley, Scotland                |
| Chalmers Wm., & Co., Ltd.                  | Rutherglen, Scotland                         |
| Chambers John, Ltd.                        | Oulton Broad, Lowestoft                      |
| Day, Summers & Co., Ltd.                   | Southampton                                  |
| Dublin Dockyard Co., Ltd.                  | North Wall, Dublin                           |
| Ferguson Brothers (Port Glasgow), Ltd.     | Newark Works, Port Glasgow                   |
| Fleming & Ferguson, Ltd.                   | Paisley, N.B.                                |
| Hawthorn R. & W., Leslie & Co., Ltd.       | Newcastle-on-Tyne                            |
| Hayes Edward                               | Stony Stratford, Wolver-                     |
| Lobnitz & Co., Ltd.                        | Renfrew, Scotland [ton                       |
| McClintic-Marshall Products Co.            | 30, Church St., New York, U.S.A.             |
| McKie & Baxter                             | Govan, Glasgow                               |
| Normand Augustin                           | 67, Rue du Perrey, Le Havre, France          |
| Ross & Duncan                              | Glasgow                                      |
| Simons W., & Co., Ltd.                     | Renfrew, N.B.                                |
| Smit L., & Zoons                           | Kinderdijk, Holland                          |
| Summers & Payne, Ltd.                      | Southampton                                  |
| Sun Shipbuilding Co.                       | 1428 So. Penn Sq., Philadelphia, Pa., U.S.A. |
| Thornycroft J.I., & Co., Ltd.              | 10, Grosvenor Place, S.W. 1                  |
| Vickers Limited                            | Barrow-in-Furness                            |
| Wallsend Slipway & Engineering Co., Ltd.   | Wallsend                                     |
| White J. Samuel, & Co., Ltd.               | East Cowes, Isle of Wight                    |
| Yarrow & Co., Ltd.                         | Glasgow                                      |

**Shipping.**

|                                |                                  |
|--------------------------------|----------------------------------|
| Furness, Withy & Co., Ltd.     | Royal Liver Building, Liverpool. |
| Leopold Walford (London), Ltd. | 29, Great St. Helens, E.C.       |

**Shovels and Spades.—(See Picks, &c.)****Sirens and Whistles.**

|                      |                                        |
|----------------------|----------------------------------------|
| France & Morgan      | Whitefield Brass Works, Govan, Glasgow |
| Lunken Company, Ltd. | 35, Great Dover St., E.C.              |

**Sites (Industrial).**

|                                        |                            |
|----------------------------------------|----------------------------|
| Burton-on-Trent Development Committee. | Town Hall, Burton-on-Trent |
| Great Western Railway Co.              | Paddington Station, W.2    |
| North Eastern Railway Co.              | The Commercial Agent, York |

**Sleepers (Railway).—(See Permanent Way.)****Slotting and Shaping Machines.—(See Machine Tools.)****Snikes.**

|                               |                  |
|-------------------------------|------------------|
| Blakeborough J., & Sons, Ltd. | Brighouse, Yorks |
| Glenfield & Kennedy, Ltd.     | Kilmarnock, N.B. |
| Ransomes & Rapier, Ltd.       | Ipswich          |

**Smiths' Fires.**

|                        |            |
|------------------------|------------|
| Alldays & Onions, Ltd. | Birmingham |
|------------------------|------------|

**Smoke Helmets, &c.**

|                           |                                            |
|---------------------------|--------------------------------------------|
| Siebe, Gorman & Co., Ltd. | Neptune Wks., Westminster Bridge Rd., S.E. |
|---------------------------|--------------------------------------------|

**Solders.**

|                     |                                         |
|---------------------|-----------------------------------------|
| Fry's Metal Foundry | 25-42, Holland St., Blackfriars, S.E. 1 |
| McKechnie Brothers  | Rotton Park St., Birmingham             |

**Solenoids (Brake).**

|                                  |                                 |
|----------------------------------|---------------------------------|
| Elliston, Evans, & Jackson, Ltd. | 13, Cross St., Finsbury, E.C. 2 |
|----------------------------------|---------------------------------|

**Sparking Plugs.—(See Igniters—Electric.)****Speed Indicators and Counters.**

|                               |                                  |
|-------------------------------|----------------------------------|
| Bailey Sir W. H., & Co., Ltd. | Albion Wks., Salford, Manchester |
| Dobbie McInnes, Ltd.          | 57, Bothwell St., Glasgow        |

**Speed Reducing Gears.—(See Gearing—Speed Reducing.)****Spikes & Nails.**

|                      |                     |
|----------------------|---------------------|
| Clyde Nail Co., Ltd. | Newton, nr. Glasgow |
| Russell John G.      | Wishaw, Scotland    |

**Springs.**

|                              |                                         |
|------------------------------|-----------------------------------------|
| Brown John, & Co., Ltd.      | Sheffield                               |
| Cockburns Limited            | Clydesdale Wks., Card'n'd, near Glasgow |
| Cottam Edwin, & Co., Ltd.    | Cardiff                                 |
| Smith Bros. & Hill, Ltd.     | Albert Spring Works, West Bromwich      |
| Staffordshire Spring Co.     | West Bromwich                           |
| Sterne L., & Co., Ltd.       | Crown Ironwks., Glasgow                 |
| Terry Herbert, & Sons, Ltd.  | Redditch                                |
| Turton Thos., & Sons, Ltd.   | Sheaf Works, Sheffield                  |
| United Spring Co.            | Smethwick, Staffs.                      |
| Wombam, Bates, & Goode, Inc. | 3, London Wall Buildings, E.C.          |

**Springs and Coils (Machinery for Making).**

|                          |                          |
|--------------------------|--------------------------|
| Sleeper & Hartley (Inc.) | Worcester, Mass., U.S.A. |
|--------------------------|--------------------------|

**Stamping Machinery.**

|                          |                |
|--------------------------|----------------|
| Berry Henry, & Co., Ltd. | Hunslet, Leeds |
| Hands John, & Sons, Ltd. | Birmingham     |
| Massey B. & S., Ltd.     | Manchester     |
| Platt Samuel, Ltd.       | Wednesbury     |
| Taylor & Challen, Ltd.   | Birmingham     |

**Stampings (Aluminium).**

London Aluminium Co., Ltd. Aston, Birmingham

**Stampings (Brass, Bronze, Copper, &c.).**

Bradley & Co., Ltd. . . . . Bilston  
 Brookes & Adams . . . . . 250-252, Barr St., Hock-  
 ley, Birmingham  
 Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
 Fisher & Ludlow, Ltd. . . . . Rea St., Birmingham  
 McKechnie Bros., Ltd. . . . . Rotton Park St., Bir-  
 mingham  
 Neal Geo. H., & Co., Ltd. . . . . 11, Southampton Row,  
 W.C. 1

Prescot Engineering Co.,  
 Ltd. . . . . Prescot, Lancs.  
 Scottish Stamping & En-  
 gineering Co., Ltd. . . . . Ayr, Scotland  
 Showell E., & Sons, Ltd. . . . . Stinchley, Birmingham  
 Smith E. J., & Co. . . . . Hay Mills, Birmingham

**Stampings (Iron and Steel).**

Armstrong Sir W. G., } 8, Great George St.,  
 Whitworth & Co., Ltd. } S.W. 1  
 Armstrong, Stevens & Son,  
 Ltd. . . . . Whittall St., Birmingham  
 Barr, Thomson & Co., Ltd. . . . . Kilmarnock, Scotland  
 Bradley & Co., Ltd. . . . . Bilston  
 Bradine T. F., & Co., Ltd. . . . . Hunslet, Leeds  
 Clayton & Shuttleworth,  
 Ltd. . . . . Lincoln  
 Fisher & Ludlow, Ltd. . . . . Rea St., Birmingham  
 Fowler John, & Co. (Leeds),  
 Ltd. . . . . Leeds  
 Gartsherrie Engineering &  
 Forge Co. . . . . 50, Wellington Street,  
 Glasgow  
 Head, Wrightson & Co., Ltd. . . . . Teesdale Ironworks, Thorn-  
 aby-on-Tees  
 Heavy Stampings, Ltd. . . . . Middlesbrough  
 McNeill Charles, Ltd. . . . . Glasgow  
 Prescott Engineering Co.,  
 Ltd. . . . . Prescott, Lancs.  
 Sankey Joseph, & Sons, Ltd. . . . . Wellington, Shropshire  
 Scottish Stamping & En-  
 gineering Co., Ltd. . . . . Ayr, Scotland  
 Thompson Bros. (Bilston),  
 Ltd. . . . . Bradley Eng. & Boiler  
 Works, Bilston

**Steam Cultivating Machines.**

Aveling & Porter, Ltd. . . . . Rochester  
 Fowler John, & Co. (Leeds),  
 Ltd. . . . . Leeds  
 Marshall, Sons & Co., Ltd. . . . . Gainsborough

**Steam Hammers.—(See also Hammers—Power.)**

Brett's Patent Lifter Co., Ltd. . . . . Coventry  
 Davis & Primrose, Ltd. . . . . Leith, Edinburgh  
 Davy Brothers, Ltd. . . . . Sheffield [gow  
 Dempster, Moore & Co., Ltd. . . . . 49, Robertson St., Glas.  
 Massey B. & S., Ltd. . . . . Openshaw, Manchester  
 Pollock, Macnab & Highgate  
 Shettleston, Glasgow

**Steam Pipes.—(See Pipes—Wrought Iron and Steel, and Tubes—Brass, Iron, &c.)****Steam Rollers.—(See Road Rollers.)****Steam Separators.**

Alley & Maclellan, Ltd. . . . . Sentinel Works, Glasgow  
 Dockendorff J. E., & Co.,  
 Inc. . . . . 20 Broad St., New York,  
 U.S.A.  
 Holden & Brooke, Ltd. . . . . West Gorton, Manches-  
 Hopkinson J., & Co., Ltd. . . . . Huddersfield [ter  
 North-Eastern Marine En-  
 gineering Co., Ltd. . . . . Northumberland Works,  
 Wallsend-on-Tyne  
 Princeps & Co. . . . . Sheffield  
 Worthington-Simpson, Ltd. . . . . Queen's House, Kings-  
 way, W.C.

**Steam Traps.**

Alley & Maclellan, Ltd. . . . . Sentinel Works, Glasgow  
 British Steam Specialties,  
 Ltd. . . . . Bedford St., Leicester  
 Clyne Engineering Co., } 94, Market St., Manches-  
 Ltd. . . . . ter  
 Cockburns Limited . . . . . Cardonald, near Glasgow  
 Dockendorff J. E., & Co.,  
 Inc. . . . . 20 Broad St., New York,  
 U.S.A.  
 Edmeston A., & Sons . . . . . Patricroft, nr. Manchester.  
 Hobbell, Way & Co., Ltd. . . . . 124-5, Minories, B.  
 Holden & Brooke, Ltd. . . . . West Gorton, Manches-  
 Hopkinson J., & Co., Ltd. . . . . Huddersfield [ter  
 Lancaster & Tonge, Ltd. . . . . Pendleton, Manchester  
 Ohio Body & Blower Co. . . . . Cleveland, Ohio, U.S.A.  
 Premier Cooler & Engineer-  
 ing Co., Ltd. . . . . Station Works, Shalford,  
 nr. Guildford, Surrey  
 Royles Limited . . . . . Irlam, near Manchester  
 Steven & Struthers . . . . . Kelvinhaugh, Glasgow  
 Turnbull Alex., & Co., Ltd. . . . . Bishopbriggs, Glasgow

**Steam Turbines and Fittings.**

Adamson, Daniel, & Co., Ltd. . . . . Dukinfield  
 Allen W.H. Sons, & Co., Ltd. . . . . Bedford  
 Armstrong, Sir W. G., } 8, Great George Street,  
 Whitworth & Co., Ltd. . . . } S.W. 1  
 Belliss & Morcom, Ltd. . . . . Birmingham  
 British Thomson-Houston  
 Co., Ltd. . . . . Rugby  
 Brotherhood, Peter, Ltd. . . . . Peterborough  
 Brush Electrical Engineer-  
 ing Co., Ltd. . . . . Loughborough, Leices-  
 tershire  
 Cockburns Limited . . . . . Cardonald, nr. Glasgow  
 De Laval Steam Turbine  
 Co. . . . . 150, Southampton Row,  
 W.C.  
 English Electric Co., Ltd. . . . . Queen's House, Kings-  
 way, W.C. 2  
 Escher, Wyss & Co. . . . . 109, Victoria St., S.W.  
 Fraser & Chalmers En-  
 gineering Works . . . . . Erith, Kent  
 Howden James, & Co. . . . . Scotland St., Glasgow  
 McNeill Charles, Ltd. . . . . Glasgow  
 Metropolitan-Vickers Elec-  
 trical Co., Ltd. . . . . Trafford Park, Man-  
 chester  
 Parsons C. A., & Co. . . . . Newcastle-on-Tyne  
 Richardson, Westgarth &  
 Co., Ltd. . . . . Hartlepool  
 Terry Steam Turbine Co. . . . . Hartford, Conn., U.S.A.  
 Thornycroft, J.L., & Co., Ltd. . . . . Southampton  
 Vickers Limited . . . . . Sheffield  
 Wallsend Slipway & Engi-  
 neering Co., Ltd. . . . . Wallsend  
 White J. Samuel, & Co., Ltd. . . . . East Cowes, Isle of Wight

**Steel Bars.—(See Bars—Bright Steel.)**

**Steel and Iron Makers.**

|                                              |                                                    |
|----------------------------------------------|----------------------------------------------------|
| Allen Edgar, & Co., Ltd. . .                 | Sheffield                                          |
| American Steel Export Co. . .                | Woolworth Building,<br>New York, U.S.A.            |
| Beardmore Wm., & Co., Ltd. . .               | Glasgow                                            |
| Bessemer Henry, & Co., Ltd. . .              | Sheffield                                          |
| Bradley & Foster, Ltd. . .                   | 105, Colmore Row, Bir-<br>mingham                  |
| Briton Ferry Steel Co., Ltd. . .             | Briton Ferry, South<br>Wales                       |
| Brown, Bayley's Steel<br>Works, Ltd. . .     | Sheffield                                          |
| Brown John, & Co., Ltd. . .                  | Sheffield                                          |
| Burys & Co., Ltd. . .                        | Sheffield                                          |
| Cammell Laird & Co., Ltd. . .                | Sheffield                                          |
| Carbon Steel Co. . .                         | Pittsburgh, Penna.,<br>U.S.A.                      |
| Colville David, & Sons, Ltd. . .             | Motherwell, nr. Glasgow                            |
| Dunlop & Ranken, Ltd. . .                    | 47, Water Lane, Leeds                              |
| Fairley James, & Sons . .                    | Shadwell St., Birmingham                           |
| Firth Thos., & Sons, Ltd. . .                | Norfolk Works, Sheffield                           |
| Gilbertson W., & Co., Ltd. . .               | Pontardawe, near<br>Swansea                        |
| Glasgow Iron & Steel Co., Ltd. . .           | Wishaw, N.B.                                       |
| Hadfields Limited . .                        | Hecla Works, Sheffield                             |
| Howell & Co., Ltd. . .                       | Brook Steel Wks., Sheffield                        |
| Lanarkshire Steel Co., Ltd. . .              | Motherwell                                         |
| Lee Arthur, & Sons, Ltd. . .                 | Sheffield                                          |
| Leeds Forge Co., Ltd. . .                    | Leeds                                              |
| Marsden H. R., Ltd. . .                      | Soho Foundry, Leeds                                |
| Miris Steel Co., Ltd. . .                    | King's House, King St.,<br>E.C.                    |
| North-European Trading<br>Co., Ltd. . .      | Stockholm, Sweden                                  |
| Osborn Samuel, & Co., Ltd. . .               | Clyde Steel Wks., Shef-<br>field                   |
| Partington Steel & Iron Co.,<br>Ltd. . .     | Irlam, Manchester                                  |
| Pittsburgh Iron & Steel<br>Foundries Co. . . | Pittsburgh, Penna.,<br>U.S.A.                      |
| Ramsay & Marshall, Ltd. . .                  | Birmingham                                         |
| Sanderson Bros. & New<br>bould, Ltd. . .     | Sheffield                                          |
| Steel Co. of Scotland, Ltd. . .              | 23, Royal Exchange Sq.,<br>Glasgow                 |
| Stewarts & Lloyds, Ltd. . .                  | 41, Oswald St., Glasgow,<br>& Nile St., Birmingham |
| Turton T., & Sons, Ltd. . .                  | Sheaf Works, Sheffield                             |
| Vickers Limited . .                          | Sheffield                                          |

**Steel and Iron Works (Plant for).—(See Iron and Steel Works.)****Steel (Tool Special, and High-Speed).**

|                                                     |                                     |
|-----------------------------------------------------|-------------------------------------|
| Adams & Benson, Ltd. . .                            | Albion, West Bromwich               |
| Allen Edgar, & Co., Ltd. . .                        | Sheffield                           |
| Apex Steel Company, Ltd. . .                        | Penistone Rd., Sheffield            |
| Armstrong Sir W. G., Whit-<br>worth & Co., Ltd. . . | 8, Great George St.,<br>S.W. 1      |
| Beardshaw J., & Son, Ltd. . .                       | Sheffield                           |
| Brown Bayley's Steel<br>Works, Ltd. . .             | Sheffield                           |
| Brown John, & Co., Ltd. . .                         | Sheffield                           |
| Burys & Co., Ltd. . .                               | Sheffield                           |
| Cammell Laird & Co., Ltd. . .                       | Sheffield                           |
| Darwin & Milner, Ltd. . .                           | Sheffield                           |
| Deloro Smelting & Refin-<br>ing Co., Ltd. . .       | 174, Corporation St.,<br>Birmingham |
| Fairley James, & Sons,<br>Ltd. . .                  | Birmingham and<br>Sheffield         |

**Steel (Tool Special, and High-Speed).—Continued.**

|                                            |                                 |
|--------------------------------------------|---------------------------------|
| Firth Thos., & Sons, Ltd. . .              | Norfolk Works, Sheffield        |
| Gilbertson W., & Co. . .                   | Pontardawe, near<br>Swansea     |
| Hall & Pickles, Ltd. . .                   | Port Street, Manchester         |
| Holding John, & Co., Ltd. . .              | Sheffield                       |
| Miris Steel Co., Ltd. . .                  | King's House, King St.,<br>E.C. |
| Partington Steel & Iron Co.,<br>Ltd. . .   | Irlam, Manchester               |
| Sanderson Bros., & New-<br>bould, Ltd. . . | Sheffield                       |
| Stringer & Co. (Sheffield),<br>Ltd. . .    | Sheffield                       |
| Vickers Limited . .                        | Sheffield                       |

**Steering Gear.**

|                                               |                                           |
|-----------------------------------------------|-------------------------------------------|
| Alley & Macellan, Ltd. . .                    | Sentinel Works, Glasgow                   |
| Carron Company . .                            | Carron, Stirlingshire                     |
| Chambers John, Ltd. . .                       | Oulton Broad, Lowes-<br>toft              |
| Kitchen's Reversing Rud-<br>der Co., Ltd. . . | 747, Royal Liver Build-<br>ing, Liverpool |
| Napier Bros., Ltd. . .                        | 130, Hyde Park St., Glas-<br>gow, W.      |
| Turnbull Alex., & Co., Ltd. . .               | Bishopbriggs, Glasgow                     |

**Stokers (Mechanical).**

|                             |                                              |
|-----------------------------|----------------------------------------------|
| Bennis Ed., & Co., Ltd. . . | Bolton                                       |
| Meldrums Ltd. . .           | Timperley, nr. Manchester                    |
| Proctor J., Ltd. . .        | Burnley, Lancashire                          |
| Reverman G. . .             | The Limes, High View<br>Avenue, Grays, Essex |
| Triumph Stoker, Ltd. . .    | Kirkstall Rd., Leeds                         |

**Stonebreakers.—(See also Disintegrators.)**

|                                    |                          |
|------------------------------------|--------------------------|
| Allen Edgar, & Co., Ltd. . .       | Sheffield                |
| Goodwin, Barsby & Co. . .          | Leicester                |
| Hadfields Limited . .              | Hecla Works, Sheffield   |
| Marsden H. R., Ltd. . .            | Soho Foundry, Leeds      |
| Robey & Co., Ltd. . .              | Lincoln                  |
| Western Wheeled Scraper<br>Co. . . | Aurora, Illinois, U.S.A. |

**Structural Engineering.**

|                                                   |                                             |
|---------------------------------------------------|---------------------------------------------|
| American Steel Export Co. . .                     | Woolworth Building<br>New York, U.S.A.      |
| Anderson D., & Son, Ltd. . .                      | Lagan Works, Belfast                        |
| Armstrongs & Main, Ltd. . .                       | Australia House, Strand,<br>W.C.            |
| Arrol Sir William, & Co.,<br>Ltd. . .             | Dalmarnock Ironworks,<br>Bridgeton, Glasgow |
| Ash Joseph, & Son . .                             | Rea St. South, Birming-<br>ham              |
| Ashmore, Benson, Pease<br>& Co., Ltd. . .         | Stockton-on-Tees                            |
| Baldwins Ltd. . .                                 | 5, Fenchurch St., E.C.                      |
| Bellamy John, Ltd. . .                            | Millwall, S.E.                              |
| Booth John, & Sons . .                            | Bolton                                      |
| Boulton & Paul, Ltd. . .                          | Norwich                                     |
| Bradley & Foster, Ltd. . .                        | 105, Colmore Row, Bir-<br>mingham           |
| Braithwaite & Co. . .                             | 117, Victoria St., S.W. 1                   |
| Brandon Bridge-Building<br>Co., Ltd. . .          | Brandon Wks, Motherwell                     |
| Butterfly Co., Ltd. . .                           | Derby                                       |
| Clayton Son, & Co., Ltd. . .                      | Hunslet, Leeds                              |
| Cleveland Bridge & En-<br>gineering Co., Ltd. . . | Darlington                                  |



**Structural Engineering.—Continued.**

|                                           |                                         |
|-------------------------------------------|-----------------------------------------|
| Clyde Structural Iron Co., Ltd.           | Clydeside Ironworks, Scotstoun, Glasgow |
| Farrar Boiler Works, Ltd.                 | Lincoln                                 |
| Findlay Alex., & Co., Ltd.                | Motherwell, nr. Glasgow                 |
| Fletcher Geo., & Co., Ltd.                | Derby                                   |
| Gibbons Bros., Ltd.                       | Dudley, Worc.                           |
| Head, Wrightson & Co., Ltd.               | Thornaby-on-Tees                        |
| Heenan & Froude, Ltd.                     | Manchester                              |
| Horsley Bridge & Engineering Co., Ltd.    | Tipton, Staffordshire                   |
| Imperial Engineering Service              | 60, Mark Lane, E.C. 3                   |
| Keay E. C. & J., Ltd.                     | Corporation St., Birmingham             |
| Lilleshall Co., Ltd.                      | Oakengates, Shropshire                  |
| McClintic-Marshall Products Co.           | 50, Church St., New York, U.S.A.        |
| MacLellan P. & W., Ltd.                   | Clutha Works, Glasgow                   |
| Maxwell & Fage                            | 49, Sefton St., Liverpool               |
| Mechans Limited                           | Glasgow                                 |
| Motherwell Bridge Co., Ltd.               | Motherwell, N.B.                        |
| Piggott Thos., & Co., Ltd.                | Springhill, Birmingham                  |
| Redpath, Brown & Co., Ltd.                | 2, St. Andrew Square, Edinburgh         |
| Rubery, Owen & Co.                        | Darlaston, S. Staffordshire             |
| Sands Geo., & Son, Ltd.                   | Colwick, Nottingham                     |
| Smith & Pearson, Ltd.                     | Newcomen Ironworks, Dublin              |
| Smulders A. F.                            | Schiedam, Holland                       |
| Somerville Barnard Construction Co., Ltd. | Archangel Works, New Cross, S.E. 14     |
| Stewarts & Lloyds, Ltd.                   | 41, Oswald St., Glasgow                 |

**Sugar Machinery.**

|                                |                                 |
|--------------------------------|---------------------------------|
| Blair, Campbell & McLean, Ltd. | Woodville St., Govan, Glasgow   |
| Craig A. F. & Co., Ltd.        | Paisley                         |
| Davis & Primrose, Ltd.         | Leith, Edinburgh                |
| Fawcett, Preston & Co., Ltd.   | Liverpool                       |
| Harvey Engineering Co., Ltd.   | Glasgow                         |
| Manlove, Alliott & Co., Ltd.   | Nottingham                      |
| Mirreles Watson Co., Ltd.      | Scotland St., Glasgow           |
| Piggott Thos., & Co., Ltd.     | Springhill, Birmingham          |
| Pott, Cassels & Williamson     | Motherwell, nr. Glasgow         |
| Robey & Co., Ltd.              | Lincoln                         |
| Ruston & Hornsby, Ltd.         | Sheaf Ironworks, Lincoln        |
| Stewart Duncan, & Co., Ltd.    | Glasgow                         |
| Watson, Laidlaw & Co., Ltd.    | 98, Dundas St. (South), Glasgow |

**Superheaters.**

|                                        |                              |
|----------------------------------------|------------------------------|
| Adamson Daniel, & Co., Ltd.            | Dukinfield                   |
| Danks H. & T. (Netherton), Ltd.        | Netherton, Dudley            |
| Davey, Paxman & Co., Ltd.              | Colchester                   |
| Galloways, Ltd.                        | Manchester                   |
| Garrett R., & Sons, Ltd.               | Leiston Works, Suffolk       |
| Heenan & Froude, Ltd.                  | Worcester                    |
| Marine & Locomotive Superheaters, Ltd. | 28, Victoria St., S.W. 1     |
| Mechans Limited                        | Scotstoun Ironworks, Glasgow |
| Millwall Engineering Co., Ltd.         | 21, Pantou St., S.W. 1       |
| Sugden T., Ltd.                        | 180, Fleet St., E.C.         |
| Superheater Corporation, Ltd.          | 14, New Burlington St., W.   |
| Superheater Units, Ltd.                | 4, Castle Sq., Swansea       |
| Thompson John, Ltd.                    | Wolverhampton                |
| Trinker, Scenton & Co., Ltd.           | Hyde, nr. Manchester         |

**Surveyors.—(See Auctioneers, &c.)****Switchboards & Accessories.—(See also Electric Lighting & Power Plant, and Instruments—Electrical Surveying, &c.)**

|                                           |                                 |
|-------------------------------------------|---------------------------------|
| British Thomson-Houston Co., Ltd.         | Rugby                           |
| Electric Construction Co., Ltd.           | 9, New Broad St., E.C. 2        |
| Electric & Ordnance Accessories Co., Ltd. | Aston, Birmingham               |
| Electric Control, Ltd.                    | Bridgeton, Glasgow              |
| English Electric Co., Ltd.                | Queen's House, Kingsway, W.C. 2 |
| Holme Edward, & Co., Ltd.                 | Altrincham, Cheshire            |
| Holmes J. H., & Co.                       | Newcastle-upon-Tyne             |
| Igranic Electric Co., Ltd.                | 147, Queen Victoria St., E.C.   |
| Johnson & Phillips, Ltd.                  | Charlton, S.E. 7                |
| Laurence, Scott & Co., Ltd.               | Norwich                         |
| Reyrolle A., & Co., Ltd.                  | Hebburn-on-Tyne                 |

**Switches and Crossings.**

|                                                         |                        |
|---------------------------------------------------------|------------------------|
| Cammell Laird & Co., Ltd.                               | Sheffield              |
| Heenan & Froude, Ltd.                                   | Worcester              |
| McKenzie & Holland, Ltd.                                | 53, Victoria St., S.W. |
| McKenzie, Holland & Westinghouse Power Signal Co., Ltd. | 58, Victoria St., B.C. |
| Summerson Thomas, & Sons, Ltd.                          | Darlington             |
| Vickers Limited                                         | Sheffield              |
| White Rd., & Sons                                       | Widnes, Lancs.         |

**Tanks and Drums.**

|                                        |                                          |
|----------------------------------------|------------------------------------------|
| Ash Joseph, & Son                      | Rea St. South, Birm'gh'm                 |
| Baldwins, Ltd.                         | 3, St. Helen's Pl., E.C.                 |
| Bellamy John, Ltd.                     | Millwall, B. [N.W. 1]                    |
| Braby Fredk., & Co., Ltd.              | 352 to 364, Euston Rd.,                  |
| Brandon Bridge-Building Co., Ltd.      | Brandon Wks, Motherwell                  |
| Brown Lenox & Co. (London), Ltd.       | Poplar, E.                               |
| Clay Cross Co., Ltd.                   | Clay Cross, nr. Chester                  |
| Clayton Son, & Co., Ltd.               | Hunslet, Leeds [field]                   |
| Clyde Structural Iron Co., Ltd.        | Clydeside Ironworks, Scotstoun, Glasgow  |
| Danks H. & T. (Netherton), Ltd.        | Netherton, Dudley                        |
| Harvey G.A., & Co. (London), Ltd.      | Greenwich Metal Wks., Woolwich Rd., S.B. |
| Head, Wrightson & Co., Ltd.            | Thornaby-on-Tees                         |
| Horsley Bridge & Engineering Co., Ltd. | Tipton, Staffordshire                    |
| Jenkins R., & Co., Ltd.                | Rotherham, Eng.                          |
| Keay E. C. & J., Ltd.                  | Corporation St., Birmingham              |
| London Aluminium Co., Ltd.             | Aston, Birmingham                        |
| McClintic-Marshall Products Co.        | 50, Church St., New York, U.S.A.         |
| Mechans Limited                        | Glasgow                                  |
| Motherwell Bridge Co., Ltd.            | Motherwell, N.B.                         |
| Newton, Chambers & Co., Ltd.           | Thorncliffe Ironworks, near Sheffield    |
| Piggott Thos., & Co., Ltd.             | Springhill, Birmingham                   |
| Ransomes & Rapier, Ltd.                | Ipswich                                  |
| Sudron Thos., & Co., Ltd.              | Stockton-on-Tees                         |
| Thompson Bros. (Bilston), Ltd.         | Bradley Eng. & Boiler Works, Bilston     |

**Tanners and Curriers. 3**

Tullis John, & Son, Ltd. .. Glasgow  
Webb & Son (Combs), Ltd. Stowmarket

**Taper Pins.—(See Pins—Taper.)****Tea-Dressing Machinery.**

Marshall, Sons & Co., Ltd. .. Gainsborough  
Ransomes, Sims & Jefferies, Ltd. .. Ipswich

**Telegraph Cable-Laying Machines.—(See Cable-Laying Machinery.)****Telegraph Instruments.**

India Rubber, Gutta Percha & Telegraph Wks., Co., Ltd. Silvertown, B.

**Telegraph Wire & Cables.—(See also Electric Cables.)**

British Insulated & Helsby Cables, Ltd. .. Prescott, Lancashire  
India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. Silvertown, B.

**Telegraphs (Engine and Steering).**

Chadburn's (Ship) Tele- } Cyprus Rd., Bootle,  
graph Co., Ltd. .. } Lanes.  
Siemens Bros. & Co., Ltd. Woolwich, S.E. 18

**Telephones.**

British L. M. Ericsson  
Mig. Co., Ltd. .. 5, Chancery Lane, W.C. 2  
Caledonian Telephon (New } 62-64, Robertson St.,  
System) Co., Ltd. .. } Glasgow  
Electric & Ordnance Access-  
ories Co., Ltd. .. Aston, Birmingham

**Testing.—(See also Laboratories.)****Testing Machines and Instruments.**

Alexander George H. .. Coleshill St., Birmingham  
Amsler Alfred J., & Co. .. Schaffhouse, Switzerland  
Avery W. & T., Ltd. .. Soho Foundry, Birmingham  
Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
Bradley & Turton, Ltd. Kidderminster  
Buckton Joshua, & Co., Ltd. Leeds  
Coats Machine Tool Co., } 14, Palmer St., West-  
Ltd. .. } minster, S.W. 1  
Cooke T., & Sons, Ltd. .. Buckingham Works, York  
Denson Saml., & Sons, Ltd. 28, Victoria St., S.W. 1  
Foster Instrument Co. .. Letchworth, Herts  
India Rubber Gutta Percha & Telegraph Wks. Co., Ltd. .. Silvertown, E.  
Shore Instrument & Manu- } Van Wyck Av. & Carl  
facturing Co. .. } St., New York, U.S.A.  
Tangyes Limited .. Birmingham

**Textile Machinery.****Thermometers.—(See Pyrometers.)****Timber.**

Meyer Montague L., Ltd., 68-74, Palmerston House,  
Old Broad St., E.C. 2  
Saunders S. E., Ltd. .. East Cowes, I.O.W.  
Southern James W., & Son, Ltd. .. Store St., Manchester

**Timber (Drying and Preserving).**

Longbotham Jonathan, & Sons, Ltd. .. Water Lane, Sheffield

**Time-Checking Machines and Registers.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester

**Tools (Hand and Small).—(See also Chucks, Files, and Machine Tools.)**

Ackworthie John, Ltd. .. Coleshill Street, Birmingham  
Alldays & Onions, Ltd. .. Birmingham  
Apex Steel Co., Ltd. .. Penistone Rd., Sheffield  
Armstrong Mfg. Co. 338, Knowlton St., Bridge-  
[port, Conn., U.S.A.  
Armstrong Sir W. G., Whit- 8, Gt. George St., S.W. 1  
worth & Co., Ltd.  
Armstrong, Stevens & Son, Ltd.  
Beardshaw J., & Son, Ltd. Whittall St., Birmingham  
Boston Scale and Machine Co. Baltic Steel Wks, Sheffield  
Boston, Mass., U.S.A.  
Bristol Pneumatic Tools, Ltd. 140, Victoria St., Bristol  
Bromell Patents Co., Ltd. 64, Darnley St., Glasgow  
Brunton & Trier .. 36, Victoria St., S.W. 1  
Budgett, H. M. .. Crown Works, Chelms-  
ford  
Chatwin Thos., Ltd. Gt. Tindal St., Birmingham  
Churchill Chas., & Co., Ltd. 9 to 13, Leonard St., E.C.  
Coats Machine Tool Co., Ltd. 14, Palmer St., S.W. 1  
Consolidated Pneumatic Egyptian House, 170,  
Tool Co., Ltd. .. Piccadilly, W. 1  
Coventry Ordnance Works, Ltd.  
Coventry  
Cushman Chuck Co. .. Hartford, Conn, U.S.A.  
Daniell S. A., Ltd. .. Edward St., Parade, Bir-  
mingham  
Deloro Smelting & Refining } 174, Corporation St.,  
Co., Ltd. .. } Birmingham  
Dempster, Moore & Co., Ltd. 49, Robertson St., Glas-  
gow  
Farmer & Co. .. 145, St. John St.,  
Clerkenwell, E.C.  
Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
Fluxio Welding Co., Ltd. Bloomfield Rd., Black-  
pool  
Forbes Brothers .. Doe St., Birmingham  
Gardner, T. J. .. Century Tool Works,  
Bristol  
Gerrard & Co., Ltd. .. 15-19, Great Titchfield  
St., W. 1  
Gilman Frank .. 62, Lightwoods Hill, Bir-  
mingham  
Globe Pneumatic Engin-  
eering Co., Ltd. .. 1, Victoria St., S.W. 1  
Hampton & Beebee, Ltd. Wednesbury, South  
Staffs.  
Hatch George .. Queenhithe, E.C. 4  
Heap Joshua, & Co., Ltd. Ashton-under-Lyne  
Holding John, & Co., Ltd. Sheffield  
Hollingdrake H., & Son, Ltd. .. Stockport

**Tools (Hand and Small).—(See also Chucks, Files, and Machine Tools.)—Continued.**

|                                                      |                                                        |
|------------------------------------------------------|--------------------------------------------------------|
| Jacobs Mfg. Co. . . . .                              | Hartford, Conn., U.S.A.                                |
| Jones A. A., & Shipman, Ltd. . . . .                 | East Park Rd., Leicester 29-31, Portugal St., W.C. 2   |
| Lash, Robert H. . . . .                              | Halford St., Leicester                                 |
| Lunts, Ltd. . . . .                                  | Hyde, Cheshire                                         |
| Malden & Co., Ltd. . . . .                           | Besley St., Streatham, S.W. 1                          |
| Milton, Ltd. . . . .                                 | 90-96, Union St., S.E. 1                               |
| Munzing H., Ltd. . . . .                             | Walthamstow, E. 17                                     |
| Newall Engineering Co. . . . .                       | Clarence Wks., Lockhurst Lane, Coventry                |
| Parc, Ltd. . . . .                                   | Woolwich, S.E. 18                                      |
| Pitters' Ventilating & Engineering Co., Ltd. . . . . | Wrentham St., Birmingham                               |
| Precision Gauges, Ltd. . . . .                       | 7, Hurst St., Liverpool 85, Queen Victoria St., E.C. 4 |
| Robertson Thos. R. . . . .                           | Wolverhampton                                          |
| Selson Engineering Co., Ltd. . . . .                 | Hartford, Conn., U.S.A.                                |
| Shaw John, & Sons (Wolverhampton), Ltd. . . . .      | 135, Finsbury Pavement, E.C.                           |
| Spafford Tool Works . . . . .                        | Bartholomew Sq., Birmingham                            |
| Stone J. B., & Co., Ltd. . . . .                     | 55-71, Amory St., Roxbury, Mass., U.S.A.               |
| Taylor Charles (Birmingham), Ltd. . . . .            | Coventry                                               |
| Trimont Mfg. Co. . . . .                             | Robertson St., Glasgow                                 |
| Tuck & Blackmore, Ltd. . . . .                       | Vickers House, Broadway, Westminster, S.W.             |
| Vickers F. E. . . . .                                | Lionel St., Birmingham                                 |
| Vickers Limited . . . . .                            | 102, Midland Rd., N.W.                                 |
| Ward H. W., & Co., Ltd. . . . .                      | Reddish, Stockport                                     |
| Wells A. C., & Co. . . . .                           | Bayham Place, Camden Town, N.W. 1                      |
| Wharton, H. . . . .                                  | Salford, Manchester                                    |
| White, Jacoby & Co., Ltd. . . . .                    | 91, Richard St., Brooklyn, New York, U.S.A.            |
| Widdowson John H. . . . .                            | Foundry Lane Works, Soho, Birmingham                   |
| Williams J. H., & Co. . . . .                        |                                                        |
| Wrigley E. G., & Co., Ltd. . . . .                   |                                                        |

**Tools (Pneumatic).—(See Pneumatic Tools.)****Torpedo Boats and Destroyers.**

|                                        |                                     |
|----------------------------------------|-------------------------------------|
| Normand Augustin . . . . .             | 67, Rue du Perrey, Le Havre, France |
| Smit L., & Zoons . . . . .             | Kinderdijk, Holland                 |
| Thornycroft J. I., & Co., Ltd. . . . . | 10, Grosvenor Place, S.W. 1         |
| White J. Samuel, & Co., Ltd. . . . .   | East Cowes, Isle of Wight           |
| Yarrow & Co., Ltd. . . . .             | Glasgow                             |

**Torsion Meters.**

|                                               |                            |
|-----------------------------------------------|----------------------------|
| Chadburn's (Ship) Telegraph Co., Ltd. . . . . | Cyprus Rd., Bootle, Lancs. |
|-----------------------------------------------|----------------------------|

**Tractors (Oil, Steam, &c.).**

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| Agricultural & General Engineers, Ltd. . . . . | Central House, Kingsway, W.C. 2 |
| Clayton & Shuttleworth, Ltd. . . . .           | Lincoln                         |
| Marshall, Sons & Co., Ltd. . . . .             | Gainsborough                    |
| Robey & Co., Ltd. . . . .                      | Lincoln                         |

**Tramways and Tramway Plant.**

|                                              |                                  |
|----------------------------------------------|----------------------------------|
| Allen Edgar, & Co., Ltd. . . . .             | Sheffield [B.C.]                 |
| Birch John, & Co., Ltd. . . . .              | 2, London Wall Buildings, London |
| Brecknell, Munro & Rogers, Ltd. . . . .      | Thrissell St., Bristol           |
| Brown John, & Co., Ltd. . . . .              | Sheffield                        |
| Hadfields Limited . . . . .                  | Hecla Works, Sheffield           |
| Hawthorn R. & W., Leslie & Co., Ltd. . . . . | Newcastle-on-Tyne                |
| Hurst, Nelson & Co., Ltd. . . . .            | Motherwell, N.B.                 |
| Ruston & Hornsby, Ltd. . . . .               | Grantham                         |

**Transporters.**

|                                               |                          |
|-----------------------------------------------|--------------------------|
| Arrol Sir Wm., & Co., Ltd. . . . .            | Bridgeton, Glasgow       |
| Brown Hoisting Machinery Co. . . . .          | Cleveland, Ohio, U.S.A.  |
| Cowans, Sheldon & Co., Ltd. . . . .           | Carlisle                 |
| Fraser & Chalmers Engineering Works . . . . . | Erith, Kent              |
| Henderson, John M., & Co. . . . .             | Aberdeen, Scotland       |
| Higginbottom & Mannock, Ltd. . . . .          | West Gorton, Manchester  |
| Ruston & Hornsby, Ltd. . . . .                | Sheaf Ironworks, Lincoln |
| Strachan & Henshaw, Ltd. . . . .              | Whitehall, Bristol       |
| Whitaker D. . . . .                           | 1, Union St., Leicester  |

**Tubes (Brass and Copper).—(See also Pipes.)**

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| Bayliss William, Ltd. . . . .                    | Sheepcote St., Birmingham |
| Birmingham Battery and Metal Co., Ltd. . . . .   | Birmingham                |
| Bolton Thomas, & Sons, Ltd. . . . .              | 57, Bishopsgate, E.C. 2   |
| Broughton Copper Co., Ltd. . . . .               | Manchester                |
| Delta Metal Co., Ltd. . . . .                    | Dartmouth St., B'ingham   |
| Grice, Grice & Son, Ltd. . . . .                 | Sheepcote St., B'ingham   |
| Heeley Silver Rolling & Wire Mills, Ltd. . . . . | Sheffield                 |
| Millwall Engineering Co., Ltd. . . . .           | 21, Pantion St., S.W. 1   |
| Muntz P. H., & Co., Ltd. . . . .                 | West Bromwich             |
| Royles, Ltd. . . . .                             | Irlam, near Manchester    |
| Yorkshire Copper Wks., Ltd. . . . .              | Leeds                     |

**Tubes (Iron and Steel).**

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| American Steel Export Co. . . . .         | Woolworth Building, New York, U.S.A. |
| Bayliss William, Ltd. . . . .             | Sheepcote St., Birmingham            |
| Chesterfield Tube Co., Ltd. . . . .       | Chesterfield                         |
| Clark George, & Sons (Hull), Ltd. . . . . | Waterhouse Lane, Hull                |
| Clayton, Son & Co., Ltd. . . . .          | Hunslet, Leeds                       |
| Foster Brothers, Ltd. . . . .             | Wednesbury                           |
| Howell & Co., Ltd. . . . .                | Sheffield [B.C.]                     |
| Le Bas Edward, & Co. . . . .              | Dock House, Billiter St., Glasgow    |
| Mechans Limited . . . . .                 | West Bromwich                        |
| Muntz P. H., & Co., Ltd. . . . .          | West Bromwich                        |
| Oriental Tube Co., Ltd. . . . .           | Springhill, Birmingham               |
| Piggott Thos., & Co., Ltd. . . . .        | Alma Tube Wks., Walsall              |
| Russell John, & Co., Ltd. . . . .         | 34, Robertson St., Glasgow           |
| Scottish Tube Co., Ltd. . . . .           | Wednesbury                           |
| Spencer John, Ltd. . . . .                | Edmund St., Birmingham               |
| Staffordshire Tube Co., Ltd. . . . .      | Kirkcaldy, N.B.                      |
| Steel Pipe Co., Ltd. . . . .              | 41, Oswald St., Glasgow              |
| Stewarts & Lloyds, Ltd. . . . .           | & Broad St. Chambers, Birmingham     |

**Tubes (Iron and Steel)—Continued.**

|                               |    |                                  |
|-------------------------------|----|----------------------------------|
| Talbot Stead Tube Co., Ltd.   | .. | Birchills, Walsall               |
| Tubes, Ltd.                   | .. | Birmingham                       |
| Tubi-Togni, Ltd.              | .. | Brescia, Italy                   |
| Weldless Steel Tube Co., Ltd. | .. | Ilkfield Port Rd., B'ham         |
| Wonham, Bates & Goode, Inc.   | 3, | London Wall Build-<br>ings, E.C. |

**Tube-Making Machinery.**

|                    |    |            |
|--------------------|----|------------|
| Platt Samuel, Ltd. | .. | Wednesbury |
|--------------------|----|------------|

**Tube Wells.—(See Well Engineers.)****Tubes (Non-Ferrous).**

|                                     |    |                        |
|-------------------------------------|----|------------------------|
| Wheeler Condenser & Engineering Co. | .. | Carteret, N.J., U.S.A. |
|-------------------------------------|----|------------------------|

**Tug Boats.**

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| Chalmers Wm., & Co., Ltd.           | Rutherglen, Scotland                          |
| Day, Summers & Co., Ltd.            | Southampton                                   |
| Ferguson Bros. (Port Glasgow), Ltd. | Newark Works, Port Glasgow                    |
| Fleming & Ferguson, Ltd.            | Paisley, N.B.                                 |
| Hayes Edward                        | Stony Stratford, Wolver-                      |
| Lohnitz & Co., Ltd.                 | Renfrew, Scotland                             |
| McKie & Baxter                      | Copland Works Govan,                          |
| Ross & Duncan                       | Glasgow                                       |
| Smilt L., & Zoons                   | Kinderdijk, Holland                           |
| Thornycroft J.L., & Co., Ltd.       | Southampton; & 10,<br>Grosvenor Place, S.W. 1 |
| White J. Samuel, & Co., Ltd.        | East Cowes, Isle of Wight                     |

**Turbine Pumps.—(See Pumps—Turbine.)****Turbines (Water).—(See also Steam Turbines.)**

|                             |                         |
|-----------------------------|-------------------------|
| Allen W.H. Sons & Co., Ltd. | Bedford                 |
| Böving & Co., Ltd.          | 56, Kingsway, W.C. 2    |
| Escher, Wyss & Co.          | 109, Victoria St., S.W. |
| Günther W., & Sons          | Central Works, Oldham   |
| Jensen J. & A., & Dahl      | Kristiania, Norway      |
| Vickers Limited             | Sheffield               |

**Turndrums.**

|                            |            |
|----------------------------|------------|
| Ellison W. T., & Co., Ltd. | Manchester |
|----------------------------|------------|

**Turntables.**

|                                    |                          |
|------------------------------------|--------------------------|
| Ashmore, Benson, Pease & Co., Ltd. | Stockton-on-Tees         |
| Cowans, Sheldon & Co., Ltd.        | Carlisle, nr. Manchester |
| Heenan & Froude, Ltd.              | Newton Heath Ironworks,  |
| Ransomes & Rapier, Ltd.            | Ipswich                  |

**Typewriters.****Tyres (Railway).**

|                                  |                          |
|----------------------------------|--------------------------|
| Beardmore W., & Co., Ltd.        | Glasgow                  |
| Bessemer Henry, & Co., Ltd.      | Sheffield                |
| Brown Bayley's Steel Works, Ltd. | Sheffield                |
| Brown John, & Co., Ltd.          | Sheffield                |
| Cammell Laird & Co., Ltd.        | Sheffield                |
| Firth Thos., & Sons, Ltd.        | Norfolk Works, Sheffield |
| Vickers Limited                  | Sheffield                |

**Tyres (Rubber).**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Dunlop Rubber Co., Ltd.        | Para Mills, Aston Cross, Birmingham |
| Michelin Tyre Co., Ltd.        | 81, Fulham Rd., Chelsea, S.W.       |
| Midland Rubber Co., Ltd.       | Ryland St., Birmingham              |
| North British Rubber Co., Ltd. | 257-259, Oxford St., W.             |

**Vacuum Dust Plant.**

|                                  |                                |
|----------------------------------|--------------------------------|
| British Vacuum Cleaner Co., Ltd. | Dept. 5/20, Parson's Co., Ltd. |
| ..                               | Green Lane, S.W.               |

**Valuers.—(See Auctioneers, &c.)****Valve Gear.****Valve Reseating Machines.**

|                              |                          |
|------------------------------|--------------------------|
| Bromell Patents Co., Ltd.    | 64, Darnley St., Glasgow |
| Jones A. A., & Shipman, Ltd. | East Park Rd., Leicester |

**Valves (Gas, Steam, Water, &c.).**

|                                             |                                   |
|---------------------------------------------|-----------------------------------|
| Alley & Macdellan, Ltd.                     | Sentinel Works, Glasgow           |
| Auld David, & Sons, Ltd.                    | Whitevale, dry Glasgow            |
| Bailey Sir W. H., & Co., Ltd.               | Salford, Manchester               |
| Bell's United Asbestos Co., Ltd.            | 594, Southwark St., S.E.          |
| Berry Henry, & Co., Ltd.                    | Croydon Works, Leeds              |
| Birkett T. M., & Sons, Ltd.                 | Hanley, Staffordshire             |
| Blair, Campbell & MacLean, Ltd.             | Woodville St., Govan Glasgow      |
| Blakeborough J., & Sons, Ltd.               | Brighthouse, Yorks.               |
| British Steam Specialties, Ltd.             | Bedford St., Leicester            |
| Clark George, & Sons (Hull) Ltd.            | Waterhouse Lane, Hull             |
| Cockburn A., & Co.                          | Gateside St., Glasgow             |
| Cockburns Limited                           | Cardonald, nr. Glasgow            |
| Crane-Bennett, Ltd.                         | 45 to 51, Leman St., E. 1         |
| Crosby Valve & Engineering Co., Ltd.        | 147, Queen Victoria St., E.C.     |
| Davies & Metcalfe, Ltd.                     | Romiley, nr. Manchester           |
| Donkin Co., Ltd. (The Bryan)                | Chesterfield                      |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, B.                      |
| Glenfield & Kennedy, Ltd.                   | Kilmarnock, N.B.                  |
| Guest & Chrimmes                            | Rotherham                         |
| Gutta Percha & Rubber, Ltd.                 | Toronto, Canada                   |
| Ham, Baker & Co., Ltd.                      | Langley Green, Birmingham         |
| Hopkinson J., & Co., Ltd.                   | Huddersfield                      |
| Kennedy's (Camtyne), Ltd.                   | Shettleston, Glasgow              |
| Lunken Company, Ltd.                        | 35, Great Dover St., S.E.         |
| Markt & Co. (London), Ltd.                  | 98 & 100, Clerkenwell Rd., E.C. 1 |

|                    |    |                                     |
|--------------------|----|-------------------------------------|
| Metallic Mfg. Co.  | .. | Ardrossan                           |
| Metallic Valve Co. | .. | Colonial Hse., Water St., Liverpool |

|                             |    |                          |
|-----------------------------|----|--------------------------|
| Munzing H., Ltd.            | .. | 90-96, Union St., S.E. 1 |
| Ohio Body & Blower Co.      | .. | Cleveland, Ohio, U.S.A.  |
| Piggott Thos., & Co., Ltd.  | .. | Birmingham               |
| Rice & Co. (Leeds), Ltd.    | .. | Elland Rd., Leeds        |
| Roy's, Ltd.                 | .. | Irlam, nr. Manchester    |
| Russell John, & Co., Ltd.   | .. | Manchester               |
| Scott David                 | .. | Polmadie, Glasgow        |
| Tubi-Togni, Ltd.            | .. | Brescia, Italy           |
| Turnbull Alex., & Co., Ltd. | .. | Bishopbriggs, Glasgow    |

**Valves (Gas, Steam, Water, &c.)—Continued.**

|                           |    |                                 |
|---------------------------|----|---------------------------------|
| White H. B., & Co.        | .. | John Dalton St., Manchester     |
| Woodite Company           | .. | Mitcham Common, Surrey          |
| Worthington-Simpson, Ltd. | .. | Queen's House, Kingsway, W.C. 2 |

**Valves (Reducing).**

|                                |        |                                           |
|--------------------------------|--------|-------------------------------------------|
| Auld David, & Sons, Ltd.       | ..     | Whitevale F'dry, Glasgow                  |
| Bailey Sir W. H., & Co., Ltd.  | ..     | Sakord, Manchester                        |
| Cockburns Limited              | ..     | Clydesdale Eng. Works, Cardonald, Glasgow |
| Dockendorff J. E., & Co., Inc. | 20, .. | Broad St., New York, U.S.A.               |
| Guest & Chimes                 | ..     | Rotherham                                 |
| Hopkinson J., & Co., Ltd.      | ..     | Huddersfield                              |
| Mason Regulator Co.            | ..     | Boston, Mass., U.S.A.                     |
| Royles Limited                 | ..     | Irlam, near Manchester                    |
| Sugden T., Ltd.                | ..     | 180, Fleet St., E.C.                      |
| Turnbull Alex., & Co., Ltd.    | ..     | Bishopbriggs, Glasgow                     |

**Valves (Safety).**

|                                      |    |                                                     |
|--------------------------------------|----|-----------------------------------------------------|
| Bailey Sir W. H., & Co., Ltd.        | .. | Salford, Manchester                                 |
| Cockburn A., & Co.                   | .. | Gateside St., Glasgow                               |
| Cockburns Limited                    | .. | Cardonald, near Glasgow                             |
| Crosby Valve & Engineering Co., Ltd. | .. | 147, Queen Victoria St., E.C.                       |
| Hobdell, Way & Co., Ltd.             | .. | St. John's House 124-5, Minorities, E. Huddersfield |
| Hopkinson J., & Co., Ltd.            | .. | 35, Great Dover St., E.C.                           |
| Lunken Company, Ltd.                 | .. | New York                                            |
| Manning, Maxwell & Moore, Inc.       | .. | Irlam, nr. Manchester                               |
| Royles Limited                       | .. | Manchester                                          |
| Russell, John, & Co., Ltd.           | .. | Bishopbriggs, Glasgow                               |
| Turnbull Alex., & Co., Ltd.          | .. | Bishopbriggs, Glasgow                               |

**Ventilators.—(See also Fans and Blowers.)**

|                               |    |                          |
|-------------------------------|----|--------------------------|
| Alldays & Onions, Ltd.        | .. | Birmingham               |
| Allen W. H., Sons & Co., Ltd. | .. | Bedford                  |
| Buffalo Forge Co., Ltd.       | .. | Buckingham Gate, S.W. 1. |

|                                           |    |                               |
|-------------------------------------------|----|-------------------------------|
| Electric & Ordnance Accessories Co., Ltd. | .. | Aston, Birmingham             |
| Heenan & Froude, Ltd.                     | .. | Worcester                     |
| Keith James, & Blackman Co., Ltd.         | .. | 27, Farringdon Avenue, E.C.   |
| Murray, McVinnie & Co., Ltd.              | .. | Mavisbank Quay, Glasgow       |
| Musgrave & Co., Ltd.                      | .. | St. Anne's Ironworks Belfast  |
| Ohio Body & Blower Co.                    | .. | Cleveland, Ohio, U.S.A.       |
| Royce Ltd.                                | .. | Trafford Park, M'chester      |
| Standard Eng. Co., Ltd.                   | .. | Leicester                     |
| Sturtevant Engineering Co., Ltd.          | .. | 147, Queen Victoria St., E.C. |
| Thermotank Co.                            | .. | 55, West Regent St., Glasgow  |

**Vices.**

|                           |    |                                      |
|---------------------------|----|--------------------------------------|
| Alldays & Onions, Ltd.    | .. | 58, Holborn Viaduct, E.C.            |
| Farmer & Co.              | .. | 145, St. John St., Clerkenwell, E.C. |
| Firth Thos., & Sons, Ltd. | .. | Norfolk Works, Sheffield             |
| Forbes Brothers           | .. | Doe St., Birmingham                  |
| Spafford Tool Works       | .. | Hartford, Conn., U.S.A.              |

**Vulcanite and Vulcanised Rubber Goods.)**

|                                                        |    |                          |
|--------------------------------------------------------|----|--------------------------|
| India-Rubber, Gutta Percha & Telegraph Works Co., Ltd. | .. | Reddaway F., & Co., Ltd. |
|--------------------------------------------------------|----|--------------------------|

**Fibre.—(See also India**

|                |    |                       |
|----------------|----|-----------------------|
| Silvertown, E. | .. | Pendleton, Manchester |
|----------------|----|-----------------------|

**Wagon (Railway) Builders.**

|                                              |    |                            |
|----------------------------------------------|----|----------------------------|
| Bagnall W. G., Ltd.                          | .. | Castle Engine Wks, Staffs. |
| Clayton & Shuttleworth, Ltd.                 | .. | Lincoln                    |
| Glasgow Railway Engineering Co., Ltd.        | .. | Govan, Glasgow             |
| Head, Wrightson & Co., Ltd.                  | .. | Thornaby-on-Tees           |
| Heenan & Froude, Ltd.                        | .. | Worcester                  |
| Hurst, Nelson & Co., Ltd.                    | .. | Motherwell, N.B.           |
| Leeds Forge Co., Ltd.                        | .. | Leeds                      |
| MacLellan P. & W., Ltd.                      | .. | Clutha Works, Glasgow      |
| Midland Railway Carriage and Wagon Co., Ltd. | .. | Midland Wks, Birm'gham     |
| Pickering R. Y., & Co., Ltd.                 | .. | Wishaw, near Glasgow       |

**Wagons (Self-Propelled).—(See Motor Vehicles.)****Wagons (Tip).**

|                             |    |                          |
|-----------------------------|----|--------------------------|
| Bagnall W. G., Ltd.         | .. | Castle Engine Works      |
| Bellamy John, Ltd.          | .. | Millwall, E. (Stafford)  |
| Hadfields Limited           | .. | Hecla Works, Sheffield   |
| Hurst, Nelson & Co., Ltd.   | .. | Motherwell, N.B.         |
| McLachlan & Co., Ltd.       | .. | Darlington.              |
| Western Wheeled Scraper Co. | .. | Aurora, Illinois, U.S.A. |

**Waste (Cotton).****Watches and Clocks.**

|                               |    |                                             |
|-------------------------------|----|---------------------------------------------|
| Bailey Sir W. H., & Co., Ltd. | .. | Salford, Manchester                         |
| Smith S., & Sons, Ltd.        | .. | 6, Grand Hotel Buildings, Trafalgar Sq., W. |

**Waste Cooling Plant.**

|                                        |    |                                                 |
|----------------------------------------|----|-------------------------------------------------|
| Brotherhood Peter, Ltd.                | .. | Peterborough                                    |
| Clyne Engineering Co., Ltd.            | .. | 94, Market St., Manchester                      |
| Davenport Engineering Co.              | .. | Harris St., Bradford                            |
| Premier Cooler & Engineering Co., Ltd. | .. | Station Works, Shalford, nr. Guild. ord, Surrey |
| Wheeler Condenser & Engineering Co.    | .. | Carteret, N.J., U.S.A.                          |

**Waterproofing Compounds.**

|                   |    |                                        |
|-------------------|----|----------------------------------------|
| Ironite Co., Ltd. | .. | 11, Old Queen St., Westminster, S.W. 1 |
| Rowse & Co.       | .. | 1, Dawson St., White-chapel, Liverpool |

**Water-Purifying Apparatus.—(See Feed-Water Filters.)**

|                                              |    |                                          |
|----------------------------------------------|----|------------------------------------------|
| Bellamy John, Ltd.                           | .. | Millwall, E.                             |
| Blakeborough J., & Sons, Ltd.                | .. | Brighouse, Yorks                         |
| Buhring's Patent Water Purifying Co.         | .. | 2, Scrutton St., E.C. 2                  |
| Harris Patent Feed-Water Filter (1910), Ltd. | .. | 24, Grainger St. West, Newcastle-on-Tyne |
| Kennicott Water Softener Co.                 | .. | Bittingshall Works, Wolverhampton        |
| Paterson Engineering Co., Ltd.               | .. | 11, Southampton Row, W.C. 1              |
| Pulsometer Engineering Co., Ltd.             | .. | Nine Elms Ironworks, Reading             |

**Water-Purifying Apparatus—Continued.**

Royles Limited .. .. Irlam, near Manchester  
 Rubery, Owen & Co. .. .. Darlaston, South Staffs  
 United Water Softeners, Ltd. Imperial House, Kingsway, W.C. 2

Wright's Forge & Engineering Co., Ltd. .. .. Tipton, Staffordshire

**Water Wheels.—(See also Turbines—Water.)**

Barry, Henry & Co., Ltd. .. .. Aberdeen  
 Bodley Bros., & Co. .. .. Exeter [burgh  
 Davis & Primrose, Ltd. .. .. Bangor Rd., Leith, Edin-

**Weighing Machines.**

Avery W. & T., Ltd. .. .. Soho Foundry, Birmingham  
 Bennis Ed., & Co., Ltd. .. .. Bolton [ham  
 Clyne Engineering Co. } 94, Market St., Manchester  
 (1908), Ltd. }  
 Denison Saml., & Son, Ltd. } 28, Victoria St., S.W. 1  
 East Ferry Road Engineering Works Co., Ltd. }  
 Smith F. L., & Co., Ltd. } Millwall, E.  
 20, Essex St., W.C. 2

**Welding and Cutting Plant.**

A 1 Manufacturing Co. .. .. Sunbridge Rd., Bradford  
 Acetylene Equipment Co. } 268 & 270, South Lambeth  
 Ltd. } Road, S.W. 8  
 Allen-Liversidge, Ltd. } 106, Victoria St., S.W.  
 Alloy Welding Processes, Ltd. } 14 & 16, Cockspur St., S.W. 1  
 Boulton & Paul, Ltd. } Norwich  
 British Insulated & Helsby Cables, Ltd. } Prescott, Lancashire  
 British Oxygen Co., Ltd. } Elverton St., S.W.  
 Dissolved Acetylene Corporation, Ltd. } 49, Victoria St. S.W.  
 Fluxio Welding Co., Ltd. } Bloomfield Rd., Blackpool  
 Hartley & Sugden, Ltd. } Atlas Works, Halifax, Yorks  
 McGowan, Wild & Co. } Hurst St., Birmingham  
 Oxy-Acetylene Welding Co., Ltd. } 169, Funniston St., Glasgow  
 Picketts, Ltd. } Mortimer Works, Hove, Sussex  
 Tilling-Stevens Motors, Ltd. Maidstone  
 Westminster Engineering Co., Ltd. } Victoria Rd., N.W. 10

**Well Engineers.—(See also Boring & Sinking Tools & Machinery for Shafts and Wells.)****Wheel-Cutting Machinery.—(See Gear Cutters.)****Wheels (Geared).**

Angus George, & Co., Ltd. Newcastle-on-Tyne  
 Barry Henry, & Co., Ltd. Aberdeen  
 Bessemer Henry, & Co., Ltd. Sheffield  
 Bodley Bros. & Co. Exeter  
 British Insulated & Helsby Cables, Ltd. Prescott, Lancashire  
 British Thomson-Houston Co., Ltd. Rugby  
 Brown David, & Sons } Park Works, Huddersfield  
 (Huddersfield), Ltd. }  
 Campbells & Hunter, Ltd. Dolphin Foundry, Leeds

**Wheels (Geared).—Continued.**

Citroën Gear Co., Ltd. .. 27, Queen Victoria St., R.C. 4  
 Entwistle & Gass, Ltd. Atlas Foundry, Bolton  
 Greenwood's Standard Gear Cutting Co., Ltd. New Bond St., Halifax  
 Hadfields Limited.. .. Hecla Works, Sheffield  
 Hawthorn R. & W., Leslie & Co., Ltd. Newcastle-on-Tyne  
 Jackson P. R., & Co., Ltd. Manchester  
 Kirkstall Forge Co., Ltd. Leeds  
 Lang John, & Sons Johnstone, nr. Glasgow  
 Manlove, Elliott & Co., Ltd. Nottingham  
 Moss Gear Co., Ltd. Aston Manor, Birmingham  
 Reay Gearworks, Ltd. Gateshead-on-Tyne  
 Reid Gear Co. Linwood, near Paisley  
 Richards Geo., & Co., Ltd. Broadbeath, nr. M'chester  
 Shaw W., & Co. Middlesbro'-on-Tees  
 Thornycroft J.I., & Co., Ltd. Basingstoke  
 Unbreakable Pulley & Mill Gearing Co., Ltd. 48, West Gorton, Manchester  
 Wallwork Henry, & Co., Ltd. Manchester  
 Wigglesworth, Frank, & Co. Clutch Wks., Shipley, nr. Bradford  
 Wrigley E. G., & Co., Ltd. Foundry Lane Works, Soho, Birmingham  
 Yates & Thom, Ltd. Canal Works, Blackburn

**Wheels (Railway).**

American Steel Export Co., Woolworth Building, New York, U.S.A.  
 Beardmore W., & Co., Ltd. Glasgow  
 Birmingham Railway Carriage & Wagon Co. Ltd. Smethwick, Birmingham  
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield  
 Glasgow Railway Engineering Co., Ltd. Govan, Glasgow  
 Hadfields Limited.. .. Hecla Works, Sheffield  
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.  
 Midland Railway Carriage & Wagon Co., Ltd. Midland Wks, Birm'gham  
 Pickering R. Y., & Co., Ltd. Wishaw, near Glasgow  
 Sankey Joseph, & Sons, Ltd. Wellington, Shropshire

**Wheels (Rawhide, &c.).**

Angus George, & Co., Ltd. Newcastle-on-Tyne  
 Armstrong Sir W. G., White & Co., Ltd. 8, Gt. George St., S.W. 1  
 British Thomson-Houston Co., Ltd. Rugby  
 Reay Gearworks, Ltd. Gateshead-on-Tyne  
 Wallwork Henry, & Co., Ltd. Manchester

**Whitewashing and Painting Machines.**

Aerograph Co., Ltd. .. 43, Holborn Viaduct, E.C.  
 Astrostyle & Lithos, Ltd. 35, St. Bride St., Ludgate Circus, E.C.  
 Wells A. C., & Co. 102, Midland Rd., N.W.

**Winches.—(See Cranes.)****Windlasses.**

Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Napier Bros., Ltd. 130, Hyde Park St., Glasgow, W.  
 Turnbull Alex., & Co., Ltd. Bishopbriggs, Glasgow

**Wire and Wire Rope Makers.**

|                                                |                                     |
|------------------------------------------------|-------------------------------------|
| Birmingham Battery and Metal Co., Ltd. . . .   | Birmingham                          |
| British Aluminium Co., Ltd. . . .              | 109, Queen Victoria St.<br>E.C. 4   |
| British Insulated & Helsby Cables, Ltd. . . .  | Prescot, Lancashire                 |
| Bolton Thomas, & Sons, Ltd. . . .              | 57, Bishopsgate, E.C. 2             |
| Brown W. B., & Co. (Bank-hall), Ltd. . . .     | Globe Works, Bankhall,<br>Liverpool |
| Bullivant & Co., Ltd. . . .                    | 72, Mark Lane, E.C.                 |
| Cousland A., & Son . . .                       | 3, Mitchell St., Glasgow            |
| Craddock Geo., & Co., Ltd. . .                 | Wakefield [ham]                     |
| Delta Metal Co., Ltd. . .                      | Dartmouth St., Birming-             |
| Elliot George, & Co., Ltd. . .                 | 16, Gt. George St., S.W.            |
| Fowler J., & Co. (Leeds), Ltd. .               | Leeds                               |
| Heeley Silver Rolling & Wire Mills, Ltd. . . . | Sheffield                           |
| Johnson Richard, Clapham & Morris, Ltd. . . .  | Lever St., Manchester               |

**Wire Weaving, Straightening, Colling, Cutting, &c (Machines for).**

|                                 |                                  |
|---------------------------------|----------------------------------|
| Anderston Foundry Co., Ltd. . . | Glasgow                          |
| Igranic Electric Co., Ltd. . .  | 147, Queen Victoria St.,<br>E.C. |
| Shuster F. B. Co. . . .         | Newhaven, Conn, U.S.A.           |
| Sleeper & Hartley (Inc.) . .    | Worcester, Mass., U.S.A.         |

**Woodite for Steam, Electrical and Hydraulic Packings.**  
Woodite Co. . . . Mitcham Common, Surrey**Wood-Wool Machinery.**

|                             |                                |
|-----------------------------|--------------------------------|
| Ransome A., & Co., Ltd. . . | Stanley Works, Newark-on-Trent |
|-----------------------------|--------------------------------|

**Wood-Working Machinery.**

|                                           |                                  |
|-------------------------------------------|----------------------------------|
| Broom & Wade, Ltd. . .                    | High Wycombe                     |
| Dempster, Moore & Co., Ltd. .             | Robertson St., Glasgow           |
| Lees T. & R., Ltd. . .                    | Hollinwood, nr. Man-<br>chester. |
| Marshall, Sons & Co., Ltd. .              | Gainsborough                     |
| Pickles John, & Son . .                   | Hebden Bridge, Yorks             |
| Pollock, Macnab & High-<br>gate . . . . . | Shettleston, Glasgow             |
| Ransome A., & Co., Ltd. . .               | Stanley Works, Newark-on-Trent   |
| Richards Geo., & Co., Ltd. .              | Broadheath, near Man-<br>chester |
| Robinson Thos., & Son, Ltd. .             | Rochdale                         |
| Vickers, Ltd. . . .                       | Broadway, Westminster,<br>S.W. 1 |
| Wadkin & Co. . . .                        | London St., Leicester            |

**Worm Gearing.**

|                               |                          |
|-------------------------------|--------------------------|
| Bodley Bros. & Co. . . .      | Old Quay Foundry, Exeter |
| Wallwork Henry, & Co., Ltd. . | Manchester               |

**Yachts.—(See Launches and Yachts.)**

# LIST OF ADDRESSES, Telegraphic Addresses, Codes, & Telephone Numbers OF FIRMS NOW ADVERTISING in "ENGINEERING."

| NAME AND ADDRESS OF ADVERTISER.                                                                |    | TELEPHONE NUMBER.               | TELEGRAPHIC ADDRESS.                |
|------------------------------------------------------------------------------------------------|----|---------------------------------|-------------------------------------|
| <b>A-1 Manufacturing Co.</b> , Sunbridge Rd., Bradford                                         |    | <b>Bradford 5152 &amp; 5153</b> | <b>Patterns, Bradford</b>           |
| <b>1 Abbott &amp; Co. (Newark)</b> , Ltd., Newark-on-Trent .. ..                               | .. | <b>34</b>                       | <b>Abbott, Newark</b>               |
| <b>Acetylene Corporation</b> , Ltd., 49, Victoria St., S.W. ..                                 | .. | <b>Victoria 4836</b>            | <b>Flamma, London</b>               |
| <b>Ackworth &amp; John</b> , Ltd., 51 & 54, Coleshill St., Birmingham                          |    | <b>Central 7366</b>             | <b>Ackworth, Birmingham</b>         |
| <b>1 16 Adamson Daniel &amp; Co.</b> , Ltd., Dukinfield .. ..                                  | .. | <b>Ashton 9 &amp; 609</b>       | <b>Adamson, Dukinfield</b>          |
| <b>Adams &amp; Benson</b> , Ltd., Albion, West Bromwich ..                                     | .. | <b>West Bromwich 161</b>        | <b>Metals, West Bromwich</b>        |
| <b>27 33 Adaptable Moulding Machine Co.</b> , Stanhope St., Birmingham                         | .. | <b>Midland 1966</b>             | <b>Adaptable, Birmingham</b>        |
| <b>1 4 16 Aerators Ltd.</b> , Sparklet Works, Edmonton, N. 18 ..                               | .. | <b>Tottenham 37 &amp; 60</b>    | <b>Spumante, Tottenham, London</b>  |
| <b>1 Aerial Ropeway Transporters</b> , Ltd., Craven House, Kingsway, W.C. 2 .. ..              | .. | <b>Gerrard 2156</b>             | <b>Artransic, London</b>            |
| <b>Aerograph Co.</b> , Ltd., 43, Holborn Viaduct, E.C. ..                                      |    | <b>Holborn 2041</b>             | <b>Aerography, London</b>           |
| <b>1 16 Agricultural &amp; General Engineers</b> , Ltd., Central House, Kingsway, W.C. 2 .. .. | .. | <b>Gerrard 6850</b>             | <b>Agroengic, Phone, London</b>     |
| <b>11 Alisa Shipbuilding Co.</b> , Ltd., Troon, N.B. .. ..                                     | .. | <b>Troon 38, 39 &amp; 58</b>    | <b>Shipyards, Troon</b>             |
| <b>1 Alrostyle &amp; Lithos</b> , Ltd., 35, St. Bride St., Ludgate Circus, E.C. 4 .. ..        | .. | <b>Central 12025</b>            | <b>Alrostyle, Fleet, London</b>     |
| <b>Alton &amp; Co.</b> , Ltd., Derby .. ..                                                     | .. | <b>Derby 525</b>                | <b>Channeled, Derby</b>             |
| <b>Albion Drop Forgings Co.</b> , Ltd., Foleshill, Coventry ..                                 | .. | <b>National 1091</b>            | <b>Albion, Coventry</b>             |
| <b>1 4 27 Albion Motor Car Co.</b> , Ltd., Scotstoun, Glasgow ..                               | .. | <b>Western 3650</b>             | <b>Automobile, Glasgow</b>          |
| <b>Aldrich Pump Co.</b> , Allentown, Pa., U.S.A.                                               |    | —                               | —                                   |
| <b>Alexander E. P., &amp; Son</b> , 306, High Holborn, W.C. ..                                 | .. | <b>Central 7424</b>             | <b>Epa, London</b>                  |
| <b>1 4 Alexander, George H.</b> , Coleshill St., Birmingham ..                                 | .. | <b>Central 1918</b>             | <b>Viking, Birmingham</b>           |
| <b>Alexander Herbert &amp; Co.</b> , Ltd., Leeds .. ..                                         | .. | <b>Central 4580</b>             | <b>Alexson, Leeds</b>               |
| <b>1 27 Alldays &amp; Onions</b> , Ltd., Birmingham .. ..                                      | .. | <b>Victoria 487</b>             | <b>Alldays, Birmingham</b>          |
| <b>Alldays &amp; Onions</b> , Ltd., 58, Holborn Viaduct, E.C. ..                               | .. | <b>Holborn 5948</b>             | <b>Typhoon, Cent., London</b>       |
| <b>Allen Edgar &amp; Co.</b> , Ltd., Imperial Steel Works, Sheffield                           | .. | <b>Sheffield 917</b>            | <b>Allen, Sheffield</b>             |
| <b>1 4 Allen-Liversidge</b> , Ltd., 106, Victoria St., S.W. ..                                 | .. | <b>Victoria 4155</b>            | <b>Accelerator, Sowerth, London</b> |
| <b>1 2 Allen W. H., Sons, &amp; Co.</b> , Ltd., Queen's Engineering Wks., Bedford              | 1  | <b>1</b>                        | <b>Pump, Bedford</b>                |
| <b>1 2 Allen W. H., Sons, &amp; Co.</b> , Ltd., 1, Queen Anne's Chmbs., S.W. [Victoria 7680]   | .. | <b>Victoria 7680</b>            | <b>Pump, London</b>                 |
| <b>2 3 6 Alley &amp; MacLellan</b> , Ltd., Sentinel Works, Glasgow ..                          | .. | <b>Queen's Park 751</b>         | <b>Alley, Glasgow</b>               |
| <b>1 3 Allied Steel Makers &amp; Founders</b> , Ltd., Central House, Kingsway, W.C. 2 .. ..    | .. | <b>Regent 2368</b>              | <b>Steeelite, Westcent, London</b>  |
| <b>1 6 11 16 Alloy Welding Processes</b> , Ltd., 14 & 16, Cockspur St., S.W. 1                 | .. | <b>Gerrard 6165</b>             | <b>Alweprol, Phone, London</b>      |
| <b>1 16 American Lead Pencil Co.</b> , 173-5, Lower Clapton Rd., N.E.                          | .. | <b>Dalston 800</b>              | <b>Ecri, London</b>                 |
| <b>1 2 4 33 American Steel Export Co.</b> , Woolworth Building, New York, U.S.A. .. ..         | .. | —                               | <b>Allports</b>                     |
| <b>1 Amster Alfred J., &amp; Co.</b> , Schaffhouse, Switzerland                                | .. | <b>Schaffhouse 4-84</b>         | <b>Jamsler, Schaffhouse</b>         |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
11 Scott's. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.



# ADDRESSES, TELEGRAPHIC ADDRESSES, CODES AND TELEPHONE NUMBERS. 51

| NAME AND ADDRESS OF ADVERTISER.                                                                        |             | TELEPHONE NUMBER.            | TELEGRAPHIC ADDRESS.               |
|--------------------------------------------------------------------------------------------------------|-------------|------------------------------|------------------------------------|
| <b>1 Anderson D., &amp; Son, Ltd., Lagan Works, Belfast</b>                                            |             |                              |                                    |
|                                                                                                        | Belfast     | <b>4033, 4034 &amp; 4035</b> | <b>Anderson, Belfast</b>           |
| <b>1 Anderson Foundry Co., Ltd., 100, Cheapside St., Glasgow</b>                                       |             | Central <b>6260</b>          | <b>Aico, Glasgow</b>               |
| <b>4 6 27 Anderson-Grice Co., Ltd., Carnoustie, Scotland</b>                                           |             | Carnoustie <b>14</b>         | <b>Diamond, Carnoustie</b>         |
| <b>Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Circus, E.C.2</b>                              |             |                              |                                    |
|                                                                                                        | London Wall | <b>1200</b>                  | <b>Mexprodex, Ave., London</b>     |
| <b>1 4 6 Angus George, &amp; Co., Ltd., Newcastle-on-Tyne</b>                                          |             | <b>956 &amp; 957</b>         | <b>Angus, Newcastle</b>            |
| <b>1 Apex Steel Co., Ltd., Penistone Rd., Sheffield</b>                                                |             | Central <b>4687</b>          | <b>Apex, Sheffield</b>             |
| <b>1 3 3 Archdale Jas., &amp; Co., Ltd., Ledsam St., Birmingham</b>                                    |             | <b>3558</b>                  | <b>Archdale, Birmingham</b>        |
| <b>Armstrong Mfg. Co., 338, Knowlton St., Bridgeport, Conn., U.S.A.</b>                                |             |                              |                                    |
| <b>1 4 16 Armstrong Siddeley Motors, Ltd., Coventry</b>                                                |             | Coventry <b>954</b>          | <b>Deasy, Coventry</b>             |
| <b>4 16 33 Armstrong Sir W. G., Whitworth &amp; Co., Ltd., 8 Great George St., Westminster, S.W. 1</b> |             | Victoria <b>4010</b>         | <b>Arwhitcoy, Parl., London</b>    |
| <b>Armstrong, Stevens &amp; Son, Ltd., Whittall St., Birmingham</b>                                    |             |                              |                                    |
|                                                                                                        | Central     | <b>6148 &amp; 6149</b>       | <b>Armstrongs, Birmingham</b>      |
| <b>1 3 4 Armstrongs &amp; Main, Ltd., Australia House, Strand, W.C.2</b>                               |             | City <b>5380</b>             | <b>Kelvin, Estrand, London</b>     |
| <b>1 Arnold Edward, 41 &amp; 43, Maddox St., W.</b>                                                    |             | Mayfair <b>1883</b>          | <b>Scholarly, London</b>           |
| <b>Arrol Sir William, &amp; Co., Ltd., Bridgeton, Glasgow</b>                                          |             | Bridgeton <b>940-943</b>     | <b>Tay, Glasgow</b>                |
| <b>Ash Joseph, &amp; Son, Rea Works, Rea St. South, Birmingham [Midland</b>                            |             |                              |                                    |
|                                                                                                        |             | <b>2440</b>                  | <b>Tanks, Birmingham</b>           |
| <b>4 Ashmore, Benson, Pease &amp; Co., Ltd., Stockton-on-Tees</b>                                      |             | [Stockton <b>501</b>         | <b>Gasholder, Stockton-on-Tees</b> |
| <b>1 4 Asquith William (1919), Ltd., Park Works, Halifax</b>                                           |             | Halifax <b>1558</b>          | <b>Drill, Halifax</b>              |
| <b>1 4 Associated British Machine Tool Makers, Ltd., 17, Grosvenor Gardens, S.W. 1</b>                 |             | Victoria <b>2496</b>         | <b>Britoolmak, Phone, London</b>   |
| <b>Association of British Driving Chain Manufacturers, Bessishaw House, Basinghall St., E.C. 2</b>     |             |                              |                                    |
|                                                                                                        | London Wall | <b>1812 &amp; 3</b>          | <b>Portend, Ave., London</b>       |
| <b>1 4 16 Atkins E. C., &amp; Co., Inc., Indianapolis, Indiana, U.S.A.</b>                             |             | Main <b>6000</b>             | <b>Atkinsaw, Indianapolis</b>      |
| <b>1 Atlas Diesel Co., Ltd., 35, Surrey St., W.C. 2</b>                                                |             | Central <b>9067</b>          | <b>Dieselmot, Estrand, London</b>  |
| <b>1 2 Atlas Metal &amp; Alloys Co., Ltd., 52, Queen Victoria St., E.C. [Central</b>                   |             | <b>2210</b>                  | <b>Aloyau, Cannon, London</b>      |
| <b>1 4 Aster Engineering Co. (1913), Ltd., Wembley, Middlesex</b>                                      |             | [Wembley <b>22 &amp; 23</b>  | <b>Aster, Wembley</b>              |
|                                                                                                        |             | [Bridgeton <b>256</b>        | <b>Reducing, Glasgow</b>           |
| <b>3 Auld David, &amp; Sons, Ltd., Whitevale Foundry, Glasgow</b>                                      |             | Kings Norton <b>230</b>      | <b>Speedily, Northfield</b>        |
| <b>1 6 Austin Motor Co., Ltd., Northfield, Birmingham</b>                                              |             | Chatham <b>513</b>           | <b>Aveling, Rochester</b>          |
| <b>6 Aveling &amp; Porter, Ltd., Rochester</b>                                                         |             | Smethwick <b>134</b>         | <b>Avery, Birmingham</b>           |
| <b>1 3 Avery W. &amp; T., Ltd., Soho Foundry, Birmingham</b>                                           |             | Fishponds <b>30</b>          | <b>Loco, Bristol</b>               |
| <b>1 6 Avenside Engine Co., Ltd., Bristol</b>                                                          |             |                              |                                    |
| <b>20 Bagnall W. G., Ltd., Castle Engine Works, Stafford</b>                                           |             |                              |                                    |
|                                                                                                        |             | <b>15</b>                    | <b>Bagnall, Stafford</b>           |
| <b>1 6 Bailey Sir W. H., &amp; Co., Ltd., Albion Works, Salford, Manchester</b>                        |             | <b>991</b>                   | <b>Beacon, Salford</b>             |
| <b>4 Baird, Archibald, &amp; Son, Ltd., Clyde Steel &amp; Engineering Works, Hamilton</b>              |             | <b>57</b>                    | <b>Excello, Hamilton</b>           |
| <b>1 Balderston &amp; Co., Ltd., 201, St. Vincent St., Glasgow</b>                                     |             | Central <b>4750</b>          | <b>Balderston, Glasgow</b>         |
| <b>1 16 33 Baldwin Locomotive Works, The, 34, Victoria St., S.W. [Victoria</b>                         |             | <b>4441</b>                  | <b>Fribald, London</b>             |
| <b>1 16 Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A.</b>             |             |                              | <b>Baldwin, Philadelphia</b>       |
| <b>1 8 Baldwins, Ltd., 3, St. Helen's Place, Bishopsgate, E.C. [Avenue</b>                             |             | <b>5113-4</b>                | <b>Promptitude, London</b>         |
| <b>1 8 Baldwins, Ltd., Orchard Place, Blackwall, E.</b>                                                |             | East <b>1074</b>             | <b>Silverine, London</b>           |
| <b>1 3 3 4 Barclay Andrew, Sons, &amp; Co., Ltd., Caledonia Wks., Kilmarnock</b>                       |             | <b>10 &amp; 11</b>           | <b>Barclayson, Kilmarnock</b>      |
| <b>1 Barford &amp; Perkins, Ltd., Peterborough</b>                                                     |             | <b>28</b>                    | <b>Barford, Peterborough</b>       |
| <b>Barker, Spink, Lease &amp; Co., Rosse Works, Shipley, Yorks</b>                                     |             | <b>99</b>                    | <b>Lathe, Shipley</b>              |

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8 International. 16 Western Union. 20 McNeill's. 27 Marconi Wireless. 33 Bentley's

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|-----------------------------------------------------------------------------------------------|--------------------------|----------------------------------|
| Bath T., & Co., 18, Savoy St., W.C. 2.                                                        | Gerrard 5797             | —                                |
| 1 2 16 Barr, Thompson & Co., Ltd., Kilmarnock, Scotland                                       | Kilmarnock 71            | Barr, Kilmarnock                 |
| Barry, Henry & Co., Ltd., Aberdeen .. ..                                                      | Central 333              | Barry, Aberdeen                  |
| Bateford B. T., Ltd., 94, High Holborn, W.C. 1 ..                                             | Central 7693             | —                                |
| 1 Bayless William, Ltd., Sheepcote St., Birmingham                                            | Midland 1409             | Drawbench, Birmingham            |
| 1 2 16 Bayliss, Jones & Bayliss, Ltd., Wolverhampton ..                                       | .. 630                   | Bayliss, Wolverhampton           |
| 1 2 16 Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C. [Bank 889                  | ..                       | Lockfast, London                 |
| Beardmore William, & Co., Ltd., Parkhead Forge Rolling Mills and Steel Works, Glasgow .. ..   | Bridgeton 3100           | Beardmore, Glasgow               |
| 6 Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield ..                                 | .. 77 & 80               | Beardshaw, Sheffield             |
| 6 Beardshaw J., & Son, Ltd., 38, Victoria St., S.W. ..                                        | Victoria 1060            | Vitvalle, London                 |
| Beckenham Foundry, Ravenscroft Rd., Beckenham, Kent                                           | Sydenham 863             | —                                |
| 4 16 Becker Milling Machine Co., Hyde Park, Boston, U.S.A.                                    | —                        | Vertical, Hyde Park, Mass.       |
| 1 3 Bedford Engineering Co., Bedford .. ..                                                    | .. 33                    | Cranes, Bedford                  |
| Beebee A., Wednesbury .. ..                                                                   | Darlaston 81             | Beebee, Fallings Heath, Wednes-  |
| 1 Beldam Packing & Rubber Co., Ltd., 29, Gracechurch St., E.C. 3 .. ..                        | ..                       | (bury                            |
| Bellamy John, Ltd., Byng St., Millwall E. .. ..                                               | Avenue 5204              | Corrugated, Grace, London        |
| 1 3 16 Belliss & Morcom, Ltd., Ledsam St. Works Birmingham                                    | .. East 157              | Bellamy, London                  |
| 2 16 Bell's United Asbestos Co., Ltd., 593, Southwark St., S.E.                               | Midland 2660 Hop 4040    | Belliss, Birmingham              |
| Bennis Ed., & Co., Ltd., Little Hulton, Bolton ..                                             | Farnworth 13             | Bellry or Asbestos, London       |
| Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow                                 | ..                       | Bennis, Little Hulton, Bolton    |
| 1 3 Berry F., & Sons, Sowerby Bridge, Yorkshire .. ..                                         | [Douglas 1266            | Bergius, Glasgow                 |
| 1 2 3 27 Berry Henry, & Co., Ltd., Croydon Works, Leeds ..                                    | .. 525                   | Berrys, Sowerby Bridge           |
| 1 4 16 33 Bertrams Limited, Sciennes, Edinburgh .. ..                                         | 20181 & 20182            | Rivetter, Leeds                  |
| 1 Bessemer Henry, & Co., Ltd., Sheffield .. ..                                                | Central 6645-6           | Bertram, Edinburgh               |
| 1 3 Beyer, Dorling & Co., Ltd., Bowling Ironworks, Bradford ..                                | .. 161                   | Bessemer, Sheffield              |
| Beverley Works, Ltd., Willow Avenue, Barnes, S.W. 1                                           | .. 1644                  | Foundry, Bradford                |
| 1 2 Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester ..                                 | [Putney 136 & 195        | —                                |
| 1 Billington & Newton, Ltd., Longport, Stoke-on-Trent ..                                      | .. 255                   | Loco, Gorton                     |
| 1 2 3 6 Birch John, & Co., Ltd., 2, London Wall Buildings, E.C. ..                            | Burslem 304              | Bronze, Longport                 |
| Birkett T. M., & Sons, Ltd., Hanley, Staffordshire .. ..                                      | .. City 4175             | Endeavour, London                |
| Birmingham Aluminium Castings (1903), Co., Ltd., Birmingham                                   | .. 284                   | Birkett, Hanley                  |
| 1 Birmingham Battery & Metal Co., Ltd., Birmingham ..                                         | Central 3349             | Hydraulic, Birmingham            |
| 1 16 Birmingham Railway Carriage & Wagon Co., Ltd., The Smethwick, Birmingham .. ..           | .. 51 & 52               | Battery, Selly Oak               |
| 1 4 16 Birmingham Small Arms Co., Ltd., Birmingham ..                                         | Smethwick 296 Four Lines | Carriage, Smethwick, Birming-    |
| 1 2 3 4 Blackstone & Co., Ltd., Rutland Works, Stamford ..                                    | .. Central 6440          | ham                              |
| 1 Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow                               | .. 307 & 308             | Small Arms, Birmingham           |
| 1 4 16 27 33 Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks .. ..           | [Govan 262               | Blackstone, Stamford             |
| Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E. .. .. | .. 228                   | Blazon, Glasgow                  |
| Rodley Bros. & Co., Old Quay Foundry, Exeter .. ..                                            | .. East 29               | Blakeboroughs, Brighouse         |
| 1 2 4 16 Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C. 2 ..                              | .. 189                   | Blundell, Pop., London           |
| 1 3 Booth John, & Sons, Hulton Steel Works, Bolton ..                                         | Central 632              | Bodley, Exeter                   |
| 1 3 Booth Joseph, & Bros., Union Ironworks, Rodley, Leeds                                     | Bolton 1195              | Wiredrawn, Led., London          |
| Boston Scale & Machine Co., Boston, Mass., U.S.A.                                             | [Stanningley 20          | Irony, Bolton                    |
| 1 Boulton & Paul, Ltd., Norwich .. ..                                                         | Roxbury 5206             | Cranes, Rodley                   |
|                                                                                               | .. Norwich 851           | 100, Ruggles St., Roxbury, Mass. |
|                                                                                               | 5 Lines                  | Boulton, Norwich                 |

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|---------------------------------|-----------------------------------------------------------------------------------------|--------------------------|------------------------------|
| 1 16                            | Boving & Co., Ltd., 56, Kingsway, W.C. 2                                                | Holborn 6420             | Jenorten, Phone, London      |
|                                 | Bowran, Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne               | National 1780            | Bowran, Newcastle-on-Tyne    |
|                                 | Brady Fred., & Co., Ltd., Fitzroy Wks., 352-364, Euston Rd., N.W. 1                     | Museum 3632              | Courteous, Eusroad, London   |
| 1                               | Bradley & Co., Ltd., Bilston                                                            | Bilston 25               | Galvanic, Bilston            |
| 1 3 3                           | Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield                              | 3                        | Craven, Wakefield            |
|                                 | Bradley & Foster, Ltd., 105, Colmore Row, Birmingham                                    | Central 1287             | Steelmets, Birmingham        |
| 1                               | Bradley & Turton, Ltd., Caldwell Foundry, Kidderminster                                 | 117                      | Wheels, Kidderminster        |
| 1 5 20                          | Bradley Pulverizer Co., 37, Walbrook, E.C.                                              | London Wall 707          | Equestrian, London           |
|                                 | Bralme T. F., & Co., Ltd., Hunslet, Leeds                                               | 1767                     | Bralme, Hunslet, Leeds       |
| 1 33                            | Braithwaite & Co., 117, Victoria St., S.W. 1                                            | Victoria 8573            | Bromkirk, Sower, London      |
|                                 | Brampton Bros., Ltd., Birmingham                                                        | East 185 & 186           | Brampton, Birmingham         |
| 1 2                             | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell                            | 11                       | Girdler, Motherwell          |
| 1                               | Brecknell, Munro & Rogers, Ltd., Thrissell St., Bristol                                 | 3137, 3138               | Brecknell, Bristol           |
| 1 6                             | Brett's Patent Lifter Co., Ltd., Coventry                                               | 384                      | Lifter, Coventry             |
| 1 3 16                          | Bridge David, & Co., Ltd., Castleton, Manchester                                        | Rochdale 25              | Castleton, Manchester        |
| 1                               | Brightside Foundry & Engineering Co., Ltd., Sheffield                                   | 863                      | Castings, Sheffield          |
| 1                               | Briquette Machinery, Ltd., Charnmouth St., Leeds                                        | Central 4580             | Briquette, Leeds             |
| 1 5 11                          | Bristol Pneumatic Tools, Ltd., 140, Victoria St., Bristol                               | Bristol 1312             | Percussion, Bristol          |
| 1 4 16                          | British Aluminium Co., Ltd., 109, Queen Victoria St., E.C. 4                            | City 2676                | Cryolite, Cent., London      |
|                                 | British Chemical Ware Manufacturers Association, Ltd., 51, Lincoln's Inn Fields, W.C. 2 | Holborn 5515             | —                            |
|                                 | British Commercial Gas Association, 47, Victoria St., S.W.                              | Victoria 2200            | Gasupreme, London            |
| 1                               | British Electric Plant Co., Ltd., 66, Garrick St., Glasgow                              | Central 5724-5           | Bepeco, Glasgow              |
| 2 3 4 16                        | British Everite & Asbestulite Works, Ltd., 29, Peter St., Manchester                    | City 7790                | Everite, Manchester          |
| 1                               | British Fibrocement Works, Erith, Kent                                                  | Erith 89                 | Fibrocemen, Erith, Kent      |
| 1                               | British Fire Appliances Co., Ltd., 109, Victoria St., S.W. 1                            | Victoria 7602            | Nonacid, Sower, London       |
|                                 | British Insulated & Helsby Cables, Ltd., Prescott, Lancs.                               | Prescot 71               | Insulator, Prescott          |
| 16                              | British Lighting & Ignition Co., Ltd., Blic Works, Cheston Rd., Aston, Birmingham       | East 340                 | Vicksnag, Phone, Birmingham  |
| 1 16                            | British L.M. Ericsson Mfg. Co., Ltd., 5, Chancery Lane, W.C. 2                          | Holborn 5340             | Ericsson, Fleet, London      |
| 1                               | British Niclausse Boiler Co., Ltd., The Clock House, Arundel Street, Strand, W.C. 2     | Central 294              | Britniclos, Westrand, London |
| 23                              | British Oak Insurance Co., Ltd., Coleman St. House, E.C. 2                              | London Wall 98 & 99      | Oaksurance, Stock, London    |
| 27                              | British Oil Products Co., Ltd., Townmill Rd., Dennistoun, Glasgow                       | Bridgetoun 365           | Flashpoint, Glasgow          |
|                                 | British Oxygen Co., Ltd., Elverton St., S.W.                                            | Victoria 4706            | Brins Oxygen, London         |
| 1                               | British Piston Ring Co., Ltd., Holbrook Lane, Coventry                                  | Coventry 1214            | Pistorings, Coventry         |
|                                 | British Reinforced Concrete Engineering Co., Ltd., 1, Dickinson St., Manchester         | City 8430                | Astragal, Manchester         |
|                                 | British Rolling Mills, Ltd., Cleveland St., Birmingham                                  | Central 1869 & 1870      | Octagon, Birmingham          |
|                                 | British Ropeway Engineering Co., Ltd., 7, Mincing Lane, E.C. 3                          | Central 11250            | Boxhauling, Fen., London     |
|                                 | British Steam Specialties, Ltd., Bedford St., Leicester                                 | Central 1085             | Boss, Leicester              |
| 1 2 4                           | British Steel Piling Co., Billiter St., E.C. 3                                          | Avenue 5463              | Pillingdom, Fen., London     |
| 4                               | British Thomson-Houston Co., Ltd., Rugby                                                | 54                       | Asteroidal, Rugby            |
|                                 | British Vacuum Cleaner Co., Ltd., Parson's Green Lane, S.W.                             | Putney 2470<br>Two Lines | Vacuumiser, Walgreen, London |

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|------------------------------------------------------------------------------------------|-----------------------|-------------------------------|
| Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire ..                            | 48                    | Ingot, Briton Ferry           |
| 4 Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield ..                            | 1581                  | Broadbent, Huddersfield       |
| 1 27 Bromell Patents Co., Ltd., 64, Darnley St., Glasgow [Pollockshields 357             |                       | Ingenuity, Glasgow            |
| 1 4 Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet,<br>Birmingham ..            | Victoria 551          | Saws, Birmingham              |
| Brookes & Adams, 250-252, Barr St., Hockley, Bir-<br>mingham ..                          | North 23              | Teleba, Birmingham            |
| Broom & Wade, Ltd., High Wycombe ..                                                      | 245 & 246             | Broom, High Wycombe           |
| 1 Brotherhood Peter, Ltd., Peterborough ..                                               | Peterborough 70       | Brotherhood, Peterborough     |
| Broughton Copper Co., Ltd., 6, Broad St. Place, E.C. ..                                  | Central 6589          | Copper Co., London            |
| Broughton Copper Co., Ltd., Manchester ..                                                | Central 6907          | Copper Co., Manchester        |
| 1 3 4 Browett, Lindley & Co., Ltd., Patricroft, Manchester ..                            | Eccles 510            | Sandon, Patricroft            |
| 1 Brown Bayley's Steel Works, Ltd., Sheffield ..                                         | Central 82            | Bayley, Sheffield             |
| 1 4 Brown David, & Sons (Huddersfield), Ltd., Park Works, {<br>Lockwood, Huddersfield .. | 1000 }<br>Three Lines | Cearing, Huddersfield         |
| 2 3 4 15 Brown Hoisting Machinery Co., Cleveland, Ohio, U.S.A. ..                        | —                     | Brownhoist, Cleveland, U.S.A. |
| Brown John, & Co., Ltd., Sheffield ..                                                    | Central 29            | Atlas, Sheffield              |
| Brown, Lenox & Co. (London), Ltd., Millwall, E. ..                                       | East 700              | Lenox, Millwall               |
| 5 Brown W. B., & Co. (Bankhall), Ltd., Bankhall, Liverpool {                             | Booth 213 & 445       | Vires, Liverpool              |
| 3 16 33 Browning Co., Cleveland, Ohio, U.S.A. ..                                         | Eddy 2240             | Brownengin, Cleveland         |
| Brownlie & Green, Ltd., Church St., Cheetham, Manchester<br>Cheetham Hill 38             | Central 439           | Analytical, Manchester        |
| 1 Brundrit Joseph, 14, Water St., Liverpool ..                                           | Central 439           | Segment, Liverpool            |
| Brunton & Trler, 36, Victoria St., S.W.1 ..                                              | Hop 3344              | Viscolity, Vic., London       |
| 1 16 33 Brush Electrical Engineering Co., Ltd., Loughborough, Leices-<br>tershire ..     | Loughborough 624      | Falcon, Loughborough          |
| 4 Buck & Hickman, Ltd., 2 & 4, Whitechapel Rd., E. 1                                     | Avenue 7540           | Roebuck, Phone, London        |
| 1 2 Buckton, Joshua, & Co., Ltd., Leeds ..                                               | Leeds 29585           | Buckton, Leeds                |
| Bucyrus Co., Idlesleigh House, Caxton St., S.W.1 ..                                      | Victoria 4340         | Westealte, London             |
| 1 3 Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester                                | Altrincham 840        | Manometer, Altrincham         |
| Budgett H. M., Crown Works, Chelmsford ..                                                | 224                   | Budgett, Chelmsford           |
| 1 4 Buffalo Forge Co., Ltd., Buckingham Gate, S.W. 1 ..                                  | Victoria 6570         | Buffaloes, Sowest, London     |
| 33 Buhring's Patent Water Purifying Co., 2, Scrutton St., E.C. 2                         | Central 1294          | Aquapureo, Cent., London      |
| 4 Bullard Machine Tool Co., Conn., U.S.A. ..                                             | —                     | Bullard, Bridgeport           |
| Bullivant & Co., Ltd., 72, Mark Lane, E.C. ..                                            | Avenue 2108           | Bullivants, Fen., London      |
| Buil's Metal & Melloid Co., Ltd., Yoker, nr. Glasgow ..                                  | Clydebank 182         | Melloid, Yoker                |
| 1 13 Burekhardt Engineering Works, 26, Victoria St., S.W.1                               | Victoria 1872         | Motoburk, Vic., London        |
| 1 2 4 11 Burmeister & Wain's, Ltd., Copenhagen C., Denmark                               | 9870 & 3225           | Burmelsters, Copenhagen       |
| Burton, Dellngpole & Co., Moseley St., Birmingham                                        | Midland 2573 & 2574   | Dellngpole, Birmingham        |
| 1 4 Burton, Griffiths, & Co., Ltd., 64 to 70, Vauxhall Bridge Rd.,<br>S.W. 1 ..          | Victoria 6747         | Callicrom, Churton, London    |
| Burton-on-Trent Development Committee, Town Hall, Burton-on-Trent                        | 23                    | Sites, Burton-on-Trent        |
| 16 Bury & Co., Ltd., Sheffield ..                                                        | Central 4             | Bury, Sheffield               |
| Butcher Henry, & Co., 63-64, Chancery Lane, W.C. 2 ..                                    | Holborn 2295          | Penetrancy, Holborn, London   |
| 1 4 Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax,<br>Eng. ..               | 1013                  | Butler, Halifax, England      |
| 1 Butler Jones (Nameplates), Ltd., Dartmouth Works, Forest<br>Hill, S.E.23 ..            | Sydenham 946          | Bronplat, Forest, London      |
| 1 Butler Samuel, & Co., Ltd., Stanningley, near Leeds                                    | Stanningley 119       | Lifting, Stanningley          |
| 16 Butterley Co., Ltd., Derby ..                                                         | Ripley 75 & 76        | Ironworks, Butterley          |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.  
11 Scott's. 13 Watkin's. 15 Atlantic Cable. 16 Western Union. 27 Marconi  
Wireless. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER.                                                                            | TELEPHONE NUMBER.                  | TELEGRAPHIC ADDRESS.                                           |
|------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------|
| <b>Butterworth Bros., Ltd., Newton Heath Glass Wks., Manchester</b>                                        | Fallsworth 23<br>Hop 4520          | <b>Glasses, Newton Heath</b><br><b>Scrabvau, Vaux., London</b> |
| 4 16 33 <b>Buyers of Scrap Metal, Ltd., Glyn St., Vauxhall, S.E. 11</b>                                    |                                    |                                                                |
| <b>Caird &amp; Rayner, 777, Commercial Rd., Limehouse, E. . .</b>                                          | <b>East 210</b>                    | <b>Vaporise, London</b>                                        |
| 1 <b>Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St., Glasgow . . .</b>                  | Central 1434                       | <b>Indicator, Glasgow</b>                                      |
| 1 16 <b>Cambridge &amp; Paul Instrument Co., Ltd., Cambridge . .</b>                                       | .. Cambs. 615                      | <b>Instrument, Cambridge</b>                                   |
| 1 <b>Cameron John, Ltd., Oldfield Rd. Ironworks, Salford . .</b>                                           | Central 2002                       | <b>Original, Manchester</b>                                    |
| 1 2 <b>Cammell Laird &amp; Co., Ltd., Cyclops Steel &amp; Ironwks, Sheffield</b>                           | Central 3800                       | <b>Cammellaird, Sheffield</b>                                  |
| 1 <b>Cammies Edward E., 160, Alma St., West Hartlepool . .</b>                                             | .. —                               | .. —                                                           |
| 1 3 <b>Campbell &amp; Calderwood, Soho Works, Paisley, Scotland . .</b>                                    | .. 2754                            | <b>Soho, Paisley</b>                                           |
| 1 4 6 <b>Campbell Gas Engine Co., Ltd., Halifax, England . .</b>                                           | .. 92                              | <b>Cargas, Halifax</b>                                         |
| 1 <b>Campbells &amp; Hunter, Ltd., Dolphin Foundry, Leeds . .</b>                                          | Central 768                        | <b>Dolphin, Leeds</b>                                          |
| 16 <b>Cape Asbestos Co., Ltd., 23, King St., E.C. 2 . .</b>                                                | City 3086 & 598                    | <b>Incorrupt, Cent., London</b>                                |
| 16 <b>Carbon Steel Co., Pittsburgh, Penna., U.S.A. . .</b>                                                 | .. Grant 6400                      | <b>Carbon, Pittsburgh, U.S.A.</b>                              |
| 1 4 16 <b>Carborundum Co., Ltd., Trafford Park, Manchester</b>                                             | Trafford Park 600 & 601            | <b>Carborund, Manchester</b>                                   |
| 1 <b>Carron Company, Carron, Stirlingshire . . .</b>                                                       | Falkirk 37                         | <b>Carronade, Falkirk</b>                                      |
| 1 6 <b>Carruthers J. H., &amp; Co., Ltd., Polmadie Ironwks., Glasgow [Queens Park 36</b>                   |                                    | <b>Holsting, Glasgow</b>                                       |
| 1 <b>Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs. . .</b>                             | Bootle 1170                        | <b>Chadburn, Liverpool</b>                                     |
| 1 <b>Chalmers Wm., &amp; Co., Ltd., Rutherglen, Scotland . .</b>                                           | Rutherglen 459                     | <b>Scow, Rutherglen</b>                                        |
| 1 6 <b>Chambers John, Ltd., Oulton Broad, Lowestoft . .</b>                                                | Oulton Broad 35                    | <b>Chambers, Oulton Broad</b>                                  |
| 1 <b>Chambers, Scott &amp; Co., Ltd., Motherwell . . .</b>                                                 | .. 63                              | <b>Energy, Motherwell</b>                                      |
| 4 <b>Champion Tool Works Co., Cincinnati, Ohio, U.S.A. . .</b>                                             | .. —                               | <b>Champ</b>                                                   |
| 1 <b>Chaplin Alex., &amp; Co., Ltd., Govan, Glasgow . . .</b>                                              | .. Govan 154                       | <b>Chaplin, Glasgow</b>                                        |
| 1 <b>Chapman &amp; Hall, Ltd., 11, Henrietta St., W.C. . .</b>                                             | Gerrard 2711                       | <b>Pickwick, Rand, London</b>                                  |
| 1 <b>Chatwin Thos., Ltd., Great Tidal St., Birmingham . .</b>                                              | Midland 1790                       | <b>Chatwin, Birmingham</b>                                     |
| 1 <b>Chesterfield Tube Co., Ltd., Chesterfield . . .</b>                                                   | Chesterfield 61                    | <b>Tubes, Chesterfield</b>                                     |
| 4 16 33 <b>Church Street Machinery &amp; Engineering Corporation, 30, Church St., New York, U.S.A. . .</b> | .. —                               | <b>Cusmeco, New York</b>                                       |
| 1 4 <b>Churchill Chas., &amp; Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C. . .</b>                      | { London Wall 2926<br>Central 2974 | <b>Opodeldoc, London</b>                                       |
| 1 <b>Cincinnati Lathe &amp; Tool Co., Oakley, Cincinnati, Ohio, U.S.A. . .</b>                             | .. —                               | <b>Cintlathe</b>                                               |
| 1 <b>Citroën Gear Co., Ltd., 27, Queen Victoria St., E.C. 4 . .</b>                                        | Central 11443                      | <b>Helical, Cannon, London</b>                                 |
| 1 <b>Clark George &amp; Sons (Hull), Ltd., Waterhouse Lane, Hull . .</b>                                   | 5003                               | <b>Clark, Hull</b>                                             |
| 12345 } <b>Clarke, Chapman &amp; Co., Ltd., Gateshead-on-Tyne {</b>                                        | { Central 1070 & 1073<br>City 137  | <b>Cyclope, Gateshead</b>                                      |
| 1 <b>Clarke's Crank &amp; Forge Co., Ltd., Lincoln . . .</b>                                               | 406                                | <b>Cranks, Lincoln</b>                                         |
| 1 <b>Clay Cross Co., Ltd., Clay Cross, near Chesterfield . .</b>                                           | 479                                | <b>Jackson, Clay Cross</b>                                     |
| 1 6 <b>Clayton &amp; Co. (Huddersfield), Ltd., Karrier Works, Huddersfield . .</b>                         | 1441 & 1443                        | <b>Karriakar, Huddersfield</b>                                 |
| 1 2 6 <b>Clayton &amp; Shuttleworth, Ltd., Lincoln . . .</b>                                               | Lincoln 42 & 43                    | <b>Claytons, Lincoln</b>                                       |
| 1 <b>Clayton, Son &amp; Co., Ltd., Leeds City Boiler Works, Leeds . .</b>                                  | 542 & 543                          | <b>Gas, Leeds</b>                                              |
| 1 16 <b>Cleveland Bridge &amp; Engineering Co., Ltd., Darlington . .</b>                                   | 2710                               | <b>Cleveland, Darlington</b>                                   |
| 4 <b>Clifton &amp; Baird, Ltd., Empress Works, Johnstone, Scotland . .</b>                                 | Johnstone 121                      | <b>Empress, Johnstone</b>                                      |
| 1 <b>Clifton &amp; Waddell, Johnstone, near Glasgow . . .</b>                                              | 23                                 | <b>Cliffell, Johnstone</b>                                     |
| 1 <b>Clyde Nail Co., Ltd., Newton, nr. Glasgow . . .</b>                                                   | Cambuslang 17 & 18                 | <b>Clyde, Haleside, Lanarkshire</b>                            |

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13 Watkins. 16 Western Union. 24 Broomhall's. 33 Bentley's.

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|---------------------------------------------------------------------------------------------|----------------------|----------------------------|
| Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow                    | Hillhead 2952        | Corrugated, Glasgow        |
| 1 Clyne Engineering Co., Ltd., 94, Market St., Manchester                                   | City 4070            | Modernize, Manchester      |
| 4 6 Coats Machine Tool Co., Ltd., 14, Palmer St., Westminster, S.W.                         | Victoria 2518 & 1509 | Oolcomachi, Vic., London   |
| 1 Cochran & Co. (Annan), Ltd., Annan, N.B.                                                  | .. ..                | Multitube, Annan           |
| 1 3 Cockburn A., & Co., Gateside St., Glasgow                                               | Bridgeton 3214       | Pressure, Glasgow          |
| Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                                       | .. [Govan 361        | Cockburn, Glasgow          |
| 1 6 Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                                    | {Bank 4909           | Satisfactory, Liverpool    |
| 1 2 3 4 16 Cole, Marchant & Morley, Ltd., Bradford                                          | Bradford 4744        | Cole, Bradford             |
| Coles H. J., Ltd., London Crane Works, Derby                                                | Derby 1266           | Coles, Derby               |
| 1 Colley Engineering & Machinery Co., Clun House, 17, Surrey St., Strand, W.C.2             | .. City 2081         | Nucleolus, Phone, London   |
| Collins & Co., Cheetham Hill, Manchester                                                    | .. ..                | .. ..                      |
| 1 Coltman H., & Sons, Loughborough                                                          | .. ..                | Coltman, Loughborough      |
| 1 Colman Walter W., & Co., Ltd., Central Boiler Wks., Loughborough                          | 51                   | Boilers, Loughborough      |
| 6 16 Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 329, High Holborn, W.C.1 | .. Holborn 1562      | Integral, Holborn, London  |
| 1 10 Colville David, & Sons, Ltd., Dalzell Steel & Iron Works, Motherwell, near Glasgow     | .. Motherwell 9      | Colville, Motherwell       |
| 1 10 Colville David, & Sons, Ltd., 54, Old Broad St., B.C.                                  | London Wall 1469     | Colville, London           |
| 4 Commercial Cars, Ltd., Luton                                                              | .. Luton 192         | Komerkars, Luton           |
| 1 Consolidated Brake & Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W.1           | .. Victoria 3987     | Vacuo, Vic., London        |
| 1 4 16 33 Consolidated Construction Co., Ltd., 9, Cloak Lane, Cannon St., E.C.4             | .. City 8176         | Solconstru, Cannon, London |
| 4 Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly, W.1               | .. Gerrard 9215      | Caulking, Piccy., London   |
| Constable A., & Co., Ltd., 10, Orange St., Leicester Sq., W.C.                              | {Central 12433       | Diagoba, Westrand, London  |
| Constructional Engineering Co., Charles Henry St., Birmingham                               | Midland 2182         | Structural, Birmingham     |
| Conveyor & Elevator Co., Accrington, Lancashire                                             | .. 2779              | Conveyor, Accrington       |
| Cook, Chas. W., Ltd., 174, Oxford Road, Manchester                                          | .. City 5039         | Abnorpress, Manchester     |
| 1 2 4 16 Cooke E. J., Trinity Leather Works, Blackfriars, Manchester                        | Central 1544         | Hides, Manchester          |
| Cooke James, & Son, 8 & 9, Wrentham Street, Birmingham                                      | {Mid. 1611           | Horology, Birmingham       |
| 1 Cooke T., & Sons, Ltd., Buckingham Works, York                                            | .. 310               | Coordinate, York           |
| 1 4 16 33 Côte Rébé, Jean, 79, Rue Lafayette, Paris                                         | .. Trudaine 6200     | Côte Rébé, Paris           |
| Cottam Edwin, & Co., Ltd., Bute Spring & Steel Works, Cardiff                               | .. 456               | Springs, Cardiff           |
| Cousland A., & Son, 3, Mitchell St., Glasgow                                                | .. City 7532         | Screened, Glasgow          |
| 1 4 16 27 Coventry Chain Co., Ltd., Coventry                                                | .. 830               | Chains, Coventry           |
| Coventry Malleable, Ltd., Henry St., Coventry                                               | .. 574               | Ductility, Coventry        |
| 1 13 27 Coventry Ordnance Works, Ltd., Coventry                                             | Coventry 1201        | Ordnance, Coventry         |
| Coventry Stamping Co., Ltd., Holbrooks Lane, Coventry                                       | Coventry 1228        | Stamps, Coventry           |
| 1 2 Cowans, Sheldon & Co., Ltd., Carlisle                                                   | .. 13                | St. Nicholas, Carlisle     |
| 1 2 Cradley Boiler Co., Ltd., Cradley Heath, Staffordshire                                  | .. Cradley 53        | Boiler, Cradley Heath      |
| Cradock Geo., & Co., Ltd., Wire Rope Works, Wakefield                                       | .. Central 466       | Cradock, Wakefield         |
| 1 4 16 20 Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley                        | 2191 & 2192          | Craig, Paisley             |
| Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.                                         | .. 15                | Craig-Donald, Johnstone    |
| 1 6 27 Crane-Bennett, Ltd., 45-51, Leman St., E.1                                           | .. Avenue 8062-5     | Spruceness, Phone, London  |

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|---------------------------------------------------------------------------------------------------------|--|----------------------------------|---------------------------------------------|
| Craven Brothers (Manchester), Ltd., Vauxhall Works, Reddish, Stockport .. .. .                          |  | Heaton Moor 421                  | Craven, Reddish                             |
| 1 Crosswells' Ltd., Wellington Mills, Bradford .. .. .                                                  |  | 950                              | Asbestos, Bradford                          |
| 1 3 4 33 Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorks. ..                                       |  | 4901                             | Crofters, Bradford                          |
| Crosby Valve & Engineering Co., Ltd., 147, Queen Victoria St., E.C. .. .. .                             |  | Central 7122                     | Crosby, London                              |
| 2 3 4 16 Crossley Bros., Ltd., Openshaw, Manchester .. .. .                                             |  | City 4200                        | Otto, Manchester                            |
| 1 Crowther Henry & Sons, Ltd., Cleckheaton, Yorkshire [Cleckheaton 43                                   |  |                                  | Henry Crowther, Cleckheaton                 |
| 1 16 Culrass Products, Ltd., 69, Victoria St., Westminster, S.W.1                                       |  | Victoria 5419                    | Kweraspro, London                           |
| 4 6 16 Cushman Chuck Co., Hartford, Conn., U.S.A. .. .. .                                               |  | —                                | Cushman, Hartford                           |
| 1 Dalglish, A. & W., West of Scotland Boiler Works, { Pollokshaws 141 }<br>Pollokshaws, Glasgow .. .. . |  | Queen Park 261                   | Evaporate, Pollokshaws                      |
| 1 4 6 16 Dalton Manufacturing Corporation, 1911, Park Av., New York, U.S.A. .. .. .                     |  | Harlem 3678                      | Aledal, New York                            |
| Dangertfield, W. & J., Goldthorne Hill, Wolverhampton .. .. .                                           |  | —                                | Dangertfield, Goldthorn Hill, Wolverhampton |
| 1 Daniell S. A., Ltd., Edward St., Parade, Birmingham .. .. .                                           |  | Central 5045                     | Daniell, Birmingham                         |
| 1 Daniels T. H. & J., Ltd., Stroud, Glos. .. .. .                                                       |  | .. Stroud 42                     | Daniels, Stroud                             |
| 1 Banks H. & T., (Netherton), Ltd., Netherton, Dudley .. .. .                                           |  | Cradley 23                       | Banks, Netherton, Dudley                    |
| 1 4 16 Darlington Forge, Ltd., Albert Hill, Darlington .. .. .                                          |  | .. .. . 2610                     | Forge, Darlington                           |
| 1 8 Darwin & Milner, Ltd., Sheffield .. .. .                                                            |  | Central 4517                     | Urgent, Sheffield                           |
| 1 Davenport Engineering Co., Ltd., Harris Street, Bradford [Bradford 3553                               |  |                                  | Humidity, Bradford                          |
| 2 3 5 6 Davey, Paxman & Co., Ltd., Standard Ironworks, Colchester ..                                    |  | .. .. . 52                       | Paxman, Colchester                          |
| 2 3 5 6 Davey, Paxman & Co., Ltd., 78, Queen Victoria St., E.C. ..                                      |  | Bank 697                         | Paxman, London                              |
| 2 4 16 Davidson & Co., Ltd., Sirocco Engineering Works, Belfast                                         |  |                                  |                                             |
| Ulster District, N. T. Co., Ltd., 327                                                                   |  |                                  | Sirocco, Belfast                            |
| Davie Bros., Ltd., Glasgow .. .. .                                                                      |  | Central 1908                     | Ratchet, Glasgow                            |
| Davies & Metcalfe, Ltd., Romiley, Manchester .. .. .                                                    |  | Stockport 2219                   | Exhaust, Romiley                            |
| Davis B. J., Great Eastern Rd., Stratford, B. 15                                                        |  | Stratford 736 & 737              | Rapidising, London                          |
| 1 Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh .. .. .                                          |  | .. Leith 634                     | Etna, Leith                                 |
| 1 16 Davy Brothers, Ltd., Sheffield .. .. .                                                             |  | .. .. . 4800                     | Motor, Sheffield                            |
| Dawson & Downie, Ltd., Elgin Wks., Clydebank, Scotland [Clydebank 92                                    |  |                                  | Pumps, Clydebank                            |
| 1 16 27 33 Dawson James & Son, Ltd., Boulton Works, Lincoln [Lincoln 377                                |  |                                  | Dawsons, Lincoln                            |
| Day, Summers & Co., Ltd., Northam Ironworks, Southampton                                                |  | 48                               | Day Summers, Southampton                    |
| 1 6 De Laval Steam Turbine Co., 150, Southampton Row, W.C.                                              |  |                                  |                                             |
| [Museum 6178                                                                                            |  |                                  | Avalturb, Westcent, London                  |
| Deloro Smelting & Refining Co., Ltd., 174, Corporation St., Birmingham .. .. .                          |  | —                                | Desoroco, Birmingham                        |
| 1 Delta Metal Co., Ltd., East Greenwich, S.E. .. .. .                                                   |  | Greenwich 123                    | Delta, Eastgren., London                    |
| 1 Delta Metal Co., Ltd., Dartmouth St., Birmingham .. .. .                                              |  | Central 3206                     | Extrusion, Birmingham                       |
| Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow                                                 |  | Argyle 505                       | Dempster, Glasgow                           |
| 1 Dempster R. & Sons, Ltd., Elland, Yorks .. .. .                                                       |  | Elland 8 & 41                    | Dempster, Elland                            |
| 4 Denison, Saml. & Son, Ltd., 28, Victoria St., S.W.1                                                   |  | Victoria 1883                    | Denwatest, Vic., London                     |
| Dennystown Forge Co., Dumbarton .. .. .                                                                 |  | .. .. . 56                       | Forge, Dumbarton                            |
| 1 Dickie, Geo., & Sons, Chester St., Birkenhead .. .. .                                                 |  | Birkenhead 250                   | Enterprise, Birkenhead                      |
| 1 16 Dissolved Acetylene Co., Ltd., 263 & 270, South Lambeth Rd., S.W.8                                 |  | { Brixton 2171-4 }<br>Four Lines | Endaxile, London                            |
| 1 6 Dixon's White, Ltd., Albion Wharf, Bow, E. .. .. .                                                  |  | .. East 1246                     | Dryolene, Rochurch, London                  |

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6 Private. 8 International. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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|---------------------------------|--------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------|
|                                 | <b>Dobbie, McInnes, Ltd., 57, Rothwell St., Glasgow ..</b>                                 | { Argyle 1545<br>Bank 8529 }    | <b>Compass, Glasgow</b>                    |
|                                 | <b>Dockendorff J. E., &amp; Co., Inc., 20 Broad St., New York, U.S.A.: —</b>               |                                 |                                            |
| 2 3                             | <b>Donkin Co., Ltd. (The Bryan), Chesterfield .. .. .</b>                                  | 84                              | <b>Donkin, Chesterfield</b>                |
| 1 2 3 20                        | <b>Douglas &amp; Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B. . .</b>                   | 105                             | <b>Douglas, Kirkcaldy</b>                  |
| 1                               | <b>Douglas Lawson &amp; Co., Birstall, near Leeds .. .. .</b>                              | Batley 135                      | <b>Pulleys, Birstall</b>                   |
|                                 | <b>Downton, Taylor &amp; Co., Hamilton, Scotland .. .. .</b>                               | Hamilton 29                     | <b>Pumps, Hamilton</b>                     |
|                                 | <b>Dowson &amp; Mason Gas Plant Co., Ltd., 39, Victoria St., S.W. [Victoria 29</b>         |                                 | <b>Gaseous, London</b>                     |
|                                 | <b>Dowson &amp; Mason Gas Plant Co., Ltd., Manchester .. .. .</b>                          | Heaton Moor 39                  | <b>Gasify, Levenshulme</b>                 |
|                                 | <b>Dorford William, &amp; Sons., Ltd., Sunderland .. .. .</b>                              | 412-414                         | <b>Dorford, Sunderland</b>                 |
|                                 | <b>Drake &amp; Gorham, Ltd., 66, Victoria St., S.W. 1 .. .. .</b>                          | Victoria 4893-4-5               | <b>Accumulator, Sowest, London</b>         |
| 1                               | <b>Drum Engineering Co., Ltd., 28, Humbolt St., Bradford .. .. .</b>                       | 2358                            | <b>Drum, Bradford</b>                      |
| 1                               | <b>Drummond Brothers, Ltd., Engel Works, near Guildford .. .. .</b>                        | 153                             | <b>Lathes, Stoughton</b>                   |
| 1 3 4                           | <b>Drysdale &amp; Co., Ltd., Bon Accord Works, Yoker, Glasgow .. .. .</b>                  | Glasgow 111                     | <b>Bonaccord, Glasgow</b>                  |
|                                 | <b>Dublin Dockyard Co., Ltd., North Wall, Dublin .. .. .</b>                               | 23 & 24                         | <b>Dockyard, Dublin</b>                    |
|                                 | <b>Dudbridge Iron Works, Ltd., Dudbridge, near Stroud .. .. .</b>                          | Stroud 7                        | <b>Humpidge, Gainscross</b>                |
| 1 2 3                           | <b>Dudgeon F. S., Ltd., 30, Great St. Helens, E.C. 3 .. .. .</b>                           | Avenue 1434                     | <b>Plasma, London</b>                      |
| 1                               | <b>Dunkerley C. C., &amp; Co., Ltd., Store St., Manchester .. .. .</b>                     | Central 649-5                   | <b>Ajax, Manchester</b>                    |
|                                 | <b>Dunlop &amp; Ranken, Ltd., 47, Water Lane, Leeds .. .. .</b>                            | Leeds 20477                     | <b>Sections, Leeds</b>                     |
| 4 33                            | <b>Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham .. .. .</b>                | East 920                        | <b>Covers, Birmingham</b>                  |
|                                 | <b>East Ferry Road Eng. Works Co., Ltd., Millwall, B. 14 .. .. .</b>                       | East 3848-9                     | <b>Hydrostatic, Phone, London</b>          |
| 1                               | <b>Edmeston Archibald, &amp; Sons, Ltd., Patricroft, nr. Manchester (Central 3266</b>      |                                 | <b>Edmeston, Patricroft</b>                |
| 1                               | <b>Electric &amp; Ordnance Accessories Co., Ltd., Aston, Birmingham .. .. .</b>            | East 340                        | <b>E.O.A., Birmingham</b>                  |
| 1 2 4 16                        | <b>Electric Construction Co., Ltd., 9, New Broad St., E.C. 2 .. .. .</b>                   | Central 10920                   | <b>Concordance, Ave., London</b>           |
|                                 | <b>Electric Control, Ltd., Bridgeton, Glasgow .. .. .</b>                                  | Bridgeton 298 & 299             | <b>Control, Glasgow</b>                    |
|                                 | <b>Electrode Co. of Sheffield, Ltd., Wincobank, Sheffield .. .. .</b>                      | Rotherham 483                   | <b>Electrodes, Rotherham</b>               |
| 1                               | <b>Electro-Mechanical Brake Co., Ltd., Eagle Works, West Bromwich .. .. .</b>              | West Bromwich 291               | <b>Brakes, West Bromwich</b>               |
| 1 16                            | <b>Electro-Metals, Ltd., Imperial Buildings, 56, Kingsway, W.C.2 .. .. .</b>               | { Holborn 6410<br>Three Lines } | <b>Processes, Westcent, London</b>         |
| 1                               | <b>Electromotors, Ltd., Openshaw, Manchester .. .. .</b>                                   | Central 7094                    | <b>Magnet, Manchester</b>                  |
| 1                               | <b>Electromotors, Ltd., 49, Queen Victoria St., E.C. .. .. .</b>                           | City 5370                       | <b>Orders, Cannon, London</b>              |
|                                 | <b>Elliot George, &amp; Co., Ltd., 16, Great George St., S.W. .. .. .</b>                  | Victoria 897                    | <b>Elliot Company, London</b>              |
|                                 | <b>Elliot George, &amp; Co., Ltd., Cardiff .. .. .</b>                                     | 175                             | <b>Elliot Company, Cardiff</b>             |
|                                 | <b>Ellison W. T., &amp; Co., Ltd., Irlams-o'-th'-Height, Manchester .. .. .</b>            | Pendleton 30                    | <b>Ellisons Ltd., Irlams-o'-th'-Height</b> |
| 1 4                             | <b>Elliston, Evans &amp; Jackson, Ltd., 13, Cross St., Finsbury, E.C. 2 .. .. .</b>        | Clerkenwell, 1924 & 1925        | <b>Elevanja, Finsquare, London</b>         |
| 1                               | <b>Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W. 1 [Victoria 4951</b>           |                                 | <b>Emprestre, Vic., London</b>             |
| 1 16                            | <b>"Engineering," Ltd., 35 &amp; 36, Bedford St., Strand, W.C. .. .. .</b>                 | Gerrard 3663 & 8596             | <b>Engineering, Westrand, London</b>       |
| 1                               | <b>Engineering Supplies, Ltd., Suffolk House, 5, Laurence Pountney Hill, E.C.4 .. .. .</b> | City 2660                       | <b>Proells, Vic., London</b>               |
| 1 4 16 33                       | <b>English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C.2 .. .. .</b>              | Holborn 830                     | <b>Enelectico, Westcent, London</b>        |
|                                 | <b>Enterprise Engineering Works, Beech Rd., Sparkhill, Birmingham .. .. .</b>              | Bolton 1390                     | <b>Foundry, Bolton</b>                     |
| 1 6                             | <b>Fatwale &amp; Gass, Ltd., Bolton .. .. .</b>                                            |                                 |                                            |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union. 20 McNeil's. 33 Bentley's.



| NAME AND ADDRESS OF ADVERTISER. |                                                                                                | TELEPHONE NUMBER.          | TELEGRAPHIC ADDRESS.          |
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| 1416                            | Escher, Wyss & Co., 109, Victoria St., S.W. . . . .                                            | Victoria 1454              | Eawysco, Sewest, London       |
|                                 | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton . . . . .                            | 39                         | Evans, Wolverhampton          |
| 124516                          | Everitt & Co., Ltd., 40, Chapel St., Liverpool, . . . . .                                      | Central 1134               | Persistent, Liverpool         |
|                                 | Expanded Metal Co., Ltd., York Mansions, York St., Westminster, S.W. . . . .                   | Victoria 8869<br>Two Lines | Distend, Vic., London         |
|                                 | Explosives Trades, Ltd., 6, Cavendish Square, W.1 . . . . .                                    | —                          | Explomerge, Wesdo., London    |
|                                 |                                                                                                |                            |                               |
|                                 | Fairley James, & Sons, Ltd., Shadwell St., Birmingham . . . . .                                | Central 253                | Fairley, Birmingham           |
|                                 | Farmer Brothers, Shrewsbury Rd., Shifnal, Salop . . . . .                                      | Shifnal 33                 | Farmer Bros., Shifnal         |
|                                 | Farmer & Co., 150, St. John St., Clerkenwell, E.C.1 . . . . .                                  | City 3470                  | Lockstone-Smith, London       |
|                                 | Farnworth Engineering Co., Hall Lane, Moses Gate, Bolton . . . . .                             |                            |                               |
|                                 |                                                                                                | Farnworth 64               | Fibre, Farnworth, Bolton      |
| 1                               | Farrar Boiler Works, Ltd., Lincoln . . . . .                                                   | 406                        | Crank's, Lincoln              |
| 1216                            | Fawcett, Preston & Co., Ltd., Liverpool . . . . .                                              | Royal 1773, 2664           | Fawcett, Liverpool            |
| 127                             | Fellows Bros., Ltd., Cradley Heath, Staffs. . . . .                                            | .. .. 35                   | Fellows, Cradley Heath        |
| 1                               | Ferguson Brothers (Port Glasgow), Ltd., Port-Glasgow . . . . .                                 | .. .. 26                   | Dredger, Port-Glasgow         |
|                                 | Ferodo, Ltd., Sovering Mills, Chapel-en-le-Frith . . . . .                                     | .. .. 19                   | Friction, Chapel-en-le-Frith  |
|                                 | Fischer's Rotors (British Empire), Ltd., New Bridge St. House, New Bridge St., E.C.4 . . . . . | City 4772                  | Rotomarov, Fleet, London      |
| 1                               | Fielding & Platt, Ltd., Atlas Works, Gloucester . . . . .                                      | .. .. 58                   | Atlas, Gloucester             |
|                                 | File Forge Co., Ltd., Kirkcaldy, Scotland . . . . .                                            | .. .. 16                   | File Forge, Kirkcaldy         |
| 429                             | Filee Ltd., Haarlem, Holland . . . . .                                                         | .. .. —                    | Filee-Haarlem                 |
|                                 | Findlay Alex., & Co., Ltd., Motherwell, near Glasgow . . . . .                                 | Motherwell 19              | Findlay, Motherwell           |
|                                 | Finney George, & Co., Berkley St., Birmingham . . . . .                                        | Midland 339 & 1970         | Yennit, Birmingham            |
| 416                             | Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield . . . . .                                  | Central 3230               | Firth, Sheffield              |
|                                 | Firth Thos., & Sons, Ltd., 8, The Sanctuary, S.W. . . . .                                      | Gerrard 5631               | Mesmeric, London              |
|                                 | Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow . . . . .                             | Argyle 51                  | Firme, Glasgow                |
| 27                              | Fisher & Ludlow, Ltd., Rea St., Birmingham . . . . .                                           | Midland 413 & 414          | Tinmen, Birmingham            |
|                                 | Fleming & Ferguson, Ltd., Paisley, near Glasgow . . . . .                                      | .. .. 18                   | Phoenix, Paisley              |
| 123416                          | Fletcher George, & Co., Ltd., Litchurch, Derby . . . . .                                       | Derby 817                  | Amarilla, Derby               |
|                                 | Fluxio Welding Co., Ltd., Bloomfield Rd., Blackpool . . . . .                                  | Blackpool 956              | Flux, Blackpool               |
| 1                               | Forbes Bros., Doe St., Birmingham . . . . .                                                    | Central 857                | Universe, Birmingham          |
| 123                             | Forth Shipbuilding & Engineering Co., Ltd., Govan, Glasgow [Govan 452                          |                            | Burnett, Glasgow              |
|                                 | Foster Brothers, Ltd., Wednesbury . . . . .                                                    | .. .. 9                    | Fosters, Wednesbury           |
| 1                               | Foster Instrument Co., Letchworth, Herts. . . . .                                              | Letchworth 26              | Foster Instrument, Letchworth |
| 125                             | Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C. . . . .                                | City 6508                  | Steamplow, London             |
| 125                             | Fowler John, & Co. (Leeds), Ltd., Steam Plough Wks, Leeds . . . . .                            | Central 513                | Fowler, Leeds                 |
|                                 | France & Morgan, Whitefield Brass Wks., Govan, Glasgow . . . . .                               | Govan 469                  | France, Glasgow               |
| 14616                           | Fraser & Chalmers Engineering Works, Erith, Kent . . . . .                                     | [Erith 168                 | Vanner, Erith                 |
| 1233                            | Fraser Douglas, & Sons, Ltd., Westburn Foundry, Arbroath . . . . .                             | .. 133                     | Fraser, Arbroath              |
|                                 | Friedenthal, Ltd., River Engine Works, Preston . . . . .                                       | .. .. 255                  | Screw, Preston                |
|                                 | Fry's Metal Foundry, 25-42, Holland St., Blackfriars, S.E.1 . . . . .                          | Hop 4720                   | Frymetals, Friars, London     |
|                                 | Fuller-Lehigh Co., Fullerton, Pa., U.S.A. . . . .                                              | .. .. —                    | Carwheel                      |
|                                 | Fullio Pump Co., Cincinnati, Ohio, U.S.A. . . . .                                              | .. .. —                    | Fullio, Cincinnati            |
|                                 | Fuller, Horsey, Sons & Cassell, 11, Billiter Sq., E.C. . . . .                                 | Avenue 3088                | Fuller Horsey, London         |
| 131627                          | Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley . . . . .         | .. .. 2163                 | Vulcan, Paisley               |
| 111333                          | Furness, Wlthy & Co., Ltd., Liverpool . . . . .                                                | Bank 9260                  | Brantford, Liverpool          |

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 11 Scott's. 13 Watkin's. 16 Western Union. 27 Marconi Wireless. 29 Mercury.  
 33 Bentley's.

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| 2 3 4                           | Galloways, Ltd., Manchester .. ..                                                | Central 6312-3-4         | Galloway, Manchester            |
| 1 3                             | Gardner L., & Sons, Ltd., Barton Hall Engine Works, Patricroft, Manchester .. .. | Ecclcs 401<br>Four Lines | Theorem, Patricroft             |
|                                 | Gardner, T. J., Century Tool Works, Bristol .. ..                                | 2294                     | Tools, Bristol                  |
| 1                               | Garrett R., & Sons, Ltd., Leiston Works, Suffolk .. ..                           | 16                       | Garrett, Leiston                |
|                                 | Garrington John, & Sons, Ltd., The Green, Darlaston, Staffs Darlaston 53         |                          | Garrington, Darlaston           |
| 1                               | Gartsherrie Engineering & Forge Co., 50, Wellington St., Glasgow .. ..           | Central 2556             | Forgings, Glasgow               |
| 1 2 4 6 16                      | General Electric Co., Ltd., 67, Queen Victoria St., E.C. 4 London Wall 3600      |                          | Electricity, Cent., London      |
|                                 | General Electric Review, 77, Upper Thames St., E.C. 4                            | —                        | —                               |
| 1                               | Gerrard & Co., Ltd., 15-19, Great Titchfield St., W. 1 Museum 3350               |                          | Gerrinated, Westdo, London      |
|                                 | Gibbins R. C., & Co., Berkley St., Birmingham .. ..                              | Midland 244              | Gibbins, Birmingham             |
|                                 | Gibbons Bros., Ltd., Dibleale Works, Dudley, Worc. ..                            | Dudley 2450              | Gibbons, Lower-Gornal           |
| 1                               | Gibbons James, St. John's Works, Wolverhampton Wolverhampton 615                 |                          | Gibbons, Wolverhampton          |
| 1 2                             | Gilbertson W., & Co., Ltd., Pontardawe, near Swansea .. ..                       | 54                       | Gilson, Pontardawe              |
|                                 | Gilman Frank, 9, Westfield Rd., Birmingham Edgbaston 1081                        |                          | Rotherwood, Birmingham          |
| 4                               | Glacier Anti-Friction Metal Co., Ltd., Waldo Rd., Willesden Junction, N.W. .. .. | Willesden 1882           | Beaucoup, Kensal, London        |
|                                 | Glasgow Iron & Steel Co., Ltd., Wishaw .. ..                                     | 2 Wishaw 2               | Ingot, Wishaw                   |
|                                 | Glasgow Railway Engineering Co., Ltd., Govan, Glasgow ..                         | Govan 53                 | Expansion, Glasgow              |
| 2                               | Glenfield & Kennedy, Ltd., Kilmarnock, N.B. .. ..                                | 28                       | Glenfield, Kilmarnock           |
| 1 4                             | Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W. [Victoria 2671      |                          | Pneumatoid, Vic., London        |
| 1 4                             | Glover W. T., & Co., Ltd., Trafford Pk., Manchester Manchester 7200              |                          | Cables, Manchester              |
| 1 4                             | Goodwin, Barsby & Co., Leicester .. ..                                           | Central 2134             | Goodwin, Ironfounder, Leicester |
| 1                               | Govan Shafting & Engineering Co., Ltd., Govan, Glasgow Govan 653 & 654           |                          | Pedestal, Glasgow               |
| 1                               | Grafton & Co., Bedford .. ..                                                     | —                        | Grafton, Bedford                |
| 1                               | Grafton & Co., 120, Cannon St., E.C. .. ..                                       | —                        | Graftonian, London              |
| 1 3                             | Grant, Ritchie & Co., Ltd., Kilmarnock .. ..                                     | Kilmarnock 93            | Grant, Kilmarnock               |
|                                 | Grantham Boiler & Crank Co., Ltd., Grantham .. ..                                | —                        | Land Grantham                   |
| 1 16                            | Graphite Products, Ltd., 218-220, Queen's Rd., S.W. 8 Battersea 227              |                          | Luxtoso, Phone, London          |
|                                 | Graves & Co., Ltd., 14, Water St., Liverpool .. ..                               | —                        | Silica, Liverpool               |
|                                 | Great Western Railway Co., Paddington Station, W. 2 Paddington 7000              |                          | —                               |
| 1                               | Green & Boulding, Ltd., 28, New Bridge St., E.C. ..                              | Central 12455            | Temperature, London             |
|                                 | Greenwood's Standard Gear Cutting Co., Ltd., New Bond St., Halifax .. ..         | 1212                     | Gears, Halifax                  |
| 1                               | Gresham & Craven, Ltd., Salford, Manchester .. ..                                | 613                      | Brake, Manchester               |
|                                 | Grice, Grice & Son, Ltd., Sheepcote St., Birmingham ..                           | Midland 23               | Grice, Birmingham               |
|                                 | Grieve John, & Co., Motherwell, Scotland .. ..                                   | 56                       | Grieve, Motherwell              |
|                                 | Griffin Charles, & Co., Ltd., Exeter St., Strand, W.C. ..                        | City 1634                | Explanatus, London              |
|                                 | Griscom-Russell Co., West St., New York, U.S.A. .. ..                            | —                        | Grispen, New York               |
|                                 | Grover & Co., Ltd., Carpenter's Rd., Stratford, E. Stratford 984 & 985           |                          | Adopted, Strat., London         |
|                                 | Guest & Chimes, Rotherham .. ..                                                  | Rotherham 205            | Guest, Rotherham                |
| 1                               | Gunter W., & Sons, Central Works, Oldham .. ..                                   | 317                      | Gunter, Oldham                  |
| 1 2 4 6 16                      | Gutta Percha & Rubber, Ltd., Toronto, Canada .. ..                               | —                        | Gutaperch, Toronto              |
| 1 4 5 16 33                     | Gwynnes, Ltd., Hammersmith Ironworks, W. ..                                      | Hammersmith 1910         | Gwynne, London                  |
| 1 27                            | Hackbridge Cable Co., Ltd., 15, Victoria St., S.W. 1 Victoria 4580               |                          | Ackbridge, Phone, London        |
|                                 | Hadfields Limited, Hecla Works, Sheffield .. ..                                  | 750                      | Hadfield, Sheffield             |

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| 1 4 6                           | Haighs (Oldham), Ltd., Globe Ironworks, Plane St., Oldham                                 | 1273                                  | Haigh, Oldham                    |
|                                 | Halden J., & Co., Ltd., 8, Albert Square, Manchester                                      | Heaton Moor 199                       | Halden, Manchester               |
| 1 27                            | Hale Thos. L., Ltd., Dudley Port, Tipton, Staffs.                                         | Tipton 72                             | Halef o, Tipton                  |
| 16                              | Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham                                      | Halesowen 81                          | Steel, Halesowen                 |
|                                 | Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., Westminster, S.W.                 | Victoria 4780 & 6020 (Photo. Dept.) 8 | Inspect, London                  |
| 3                               | Hall J. & E., Ltd., 10, St. Swithin's Lane, E.C.                                          | Bank 845 & 846                        | Hallford, London                 |
| 1 2                             | Hall J. & E., Ltd., Dartford, Kent                                                        | Dartford 7 & 46                       | Hallford, Dartford               |
|                                 | Hall J. P., & Co., Ltd., Blackriding Ironworks, Werneth, Oldham                           | 300                                   | Dynamo, Oldham                   |
|                                 | Hall J. P., & Sons, Ltd., Peterborough                                                    | 0159                                  | Hall, Engineers, Peterborough    |
| 1 4 16 33                       | Hall & Pickles, Ltd., Port St., Manchester                                                | Manchester 6234                       | Iron, Manchester                 |
| 1 4                             | Ham, Baker & Co., Ltd., Langley Green, Birmingham                                         | Oldbury 87                            | Penstock, Langley, Worca.        |
| 27                              | Hamilton A. H., & Co., Possilpark, Glasgow                                                | Douglas 3585                          | Satisfy, Glasgow                 |
| 1                               | Hampton & Beebee, Ltd., Wednesbury, South Staffs                                          | Wednesbury 80                         | Washers, Wednesbury              |
|                                 | Hampton & Dean, Clifton Works, Wednesbury                                                 | Darlaston 39                          | Busirks, Led., London            |
| 1                               | Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W.                                   | Victoria 6374                         | Incombust, Sowest, London        |
| 1 6                             | Hands John, & Sons, Ltd., Cardigan Works, Birmingham                                      | Central 3232                          | Machinery, Birmingham            |
|                                 | Hannan & Buchanan, 75, Robertson St., Glasgow                                             | 1899                                  | —                                |
|                                 | Hardy & Padmore, Ltd., Worcester Foundry, Worcester                                       | [Worcester 160                        | Quality, Worcester               |
| 1 2 4                           | Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham                               | Midland 2473 & 2474                   | Harris, Birmingham               |
| 1                               | Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.                      | Westminster 876                       | Windtight, London                |
| 1                               | Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger Street West, Newcastle-on-Tyne | Central 3220                          | Windtight, Newcastle-on-Tyne     |
| 1                               | Hart Thomas, Ltd., Blackburn, England                                                     | Blackburn 5010                        | Hart, Blackburn                  |
| 1 4                             | Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.                                        | [Halifax 1238-9                       | Boilers, Halifax                 |
|                                 | Hartnell Wilson, & Co., Ltd., Volt Wks., Kirkstall Rd., Leeds                             | Central 282                           | Hartnell, Leeds                  |
| 4                               | Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow                          | { X 565<br>1702-3                     | Maconic, Glasgow                 |
|                                 | Harvey G. A. & Co., (London), Ltd., Greenwich Metal Works, Woolwich Rd., S.E.             | { Greenwich 20<br>Five Lines          | Cheaper, Char., London           |
|                                 | Harvey G. & A., Ltd., Govan, Glasgow                                                      | Govan 72                              | Gandah, Glasgow                  |
| 1                               | Haslam Foundry & Engineering Co., Ltd., Derby                                             | 778                                   | Zero, Derby                      |
| 1                               | Hatch George, Ltd., Queenhithe, E.C. 4                                                    | City 7190                             | George Hatch, Cannon, London     |
| 1 3 27                          | Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds                                            | Leeds 22491                           | Hathorn, Leeds                   |
|                                 | Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne                                   | 1232                                  | Locomotive, Newcastle            |
| 1                               | Hayes Edward, Watling Works, Stony Stratford, Wolverton                                   | —                                     | Hayes, Stony Stratford           |
| 1                               | Hayes Edward, Palace Chambers, 9, Bridge St., S.W.                                        | Victoria 1556                         | Seyah, London                    |
| 16                              | Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C. 4                                 | City 9626                             | Tylerox, Cent., London           |
| 4                               | Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-Tees                         | 22 { G.P.O. 15                        | Teesdale, Stockton-on-Tees       |
|                                 | Heap Joshua, & Co., Ltd., Ashton-under-Lyne                                               | 183                                   | Heap, Limited, Ashton-under-Lyne |
| 1 6                             | Heath & Co., Ltd., New Eltham, S.E. 9                                                     | Lee Green 301 & 302                   | Polaris, London                  |
|                                 | Heavy Stampings, Ltd., Middlesbrough                                                      | 291                                   | Stampings, Middlesbro'           |
| 1                               | Hecley Silver Rolling & Wire Mills, Ltd., Sheffield                                       | Central 4513                          | Trick, Sheffield                 |
| 1 5                             | Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester                                 | [Cent. 6260                           | Spherical, Newton Heath          |
| 1 5                             | Heenan & Froude, Ltd., Worcester Eng. Works, Worcester                                    | 391                                   | Heenan, Worcester                |

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| 1 5                             | Heenan & Froude, Ltd., 4, Chapel Walks, Manchester..                              | City 5187                          | Heenan, Manchester             |
|                                 | Henderson & Glass, Liverpool .. .. .                                              | Central 443 & 7495                 | Vuican, Liverpool              |
| 1 3 4                           | Henderson John M., & Co., King's Works, Aberdeen, Scotland                        | Central 3162                       | Cranes, Aberdeen               |
|                                 | Hendry James, Laminated Leather Works, Bridge-<br>ton, Glasgow .. .. .            | Bridgeton 1747<br>Three Lines      | Laminated, Glasgow             |
| 1 4 6                           | Herbert Alfred, Ltd., Coventry .. .. .                                            | 860 Six Lines                      | Lathe, Coventry                |
| 1 6                             | Herbert Edward G., Ltd., Chapel St., Levenshulme, Manchester                      | Rusholme 176                       | Tested, Manchester             |
| 1                               | Heywood S. H., & Co., Ltd., Reddish .. .. .                                       | Heaton Moor 48                     | Cranes, Reddish                |
|                                 | Hick, Hargreaves & Co., Ltd., Soho Works, Bolton ..                               | Bolton 1373-4                      | Hick, Bolton                   |
|                                 | Higginbottom & Mannoek, Ltd., West Gorton, Manchester ..                          | 1577                               | Crown, Gortonbrook             |
| 1                               | Higgs Bros., Summer Hill St., Birmingham .. ..                                    | Central 944                        | Higbro, Birmingham             |
| 16                              | Hilger, Adam, Ltd., 75a, Camden Rd., N.W.1                                        | North 1677 & 1678                  | Sphericity, Phone, London      |
| 1 4                             | Hindley, E. S., & Sons, 11, Queen Victoria St., E.C. ..                           | City 3604                          | Steamport, London              |
| 1 4 16 33                       | Hingley N., & Sons, Ltd., Netherton Ironworks, Dudley                             | Dudley 2435                        | Hingley, Dudley                |
|                                 | Hirst Bros. & Co., Ltd., 57, Roscoe St., Oldham, Lancs.                           | Oldham 781                         | Hirsts 781, Oldham             |
| 1 2 3 5                         | Hobdell, Way & Co., 124-5, St. John's Hse., Minorities, E.                        | Avenue 3810                        | Hobnalls, London               |
| 1 4 16                          | Hoffmann Manufacturing Co., Ltd., Chelmsford ..                                   | 151 Two Lines                      | Hoffmann, Chelmsford           |
|                                 | Holcroft's Steel Foundry Co., Ltd., Bilston, South Stafford-<br>shire .. .. .     | Bilston 11                         | Holcroft's, Bilston            |
| 1 3 4                           | Holden & Brooke, Ltd., West Gorton, Manchester ..                                 | Central 2461                       | Influx, Manchester             |
| 1                               | Holding John & Co., Ltd., Sheffield .. ..                                         | Central 268 & 272                  | Holding, Sheffield             |
|                                 | Holdsworth & Sons, Ltd., Leeds Rd., Bradford ..                                   | .. .. 446                          | Steam, Bradford                |
|                                 | Hollingdrake H. & Son, Ltd., Princes St., Stockport ..                            | .. .. 608                          | Hollingdrake, Stockport        |
| 1                               | Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham ..                          | East 160                           | Plungers, Birmingham           |
|                                 | Holme Edward & Co., Ltd., Altrincham, Cheshire                                    | Altrincham 1103                    | Contact, Altrincham            |
| 1 4 16                          | Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne                             | Central 809                        | Holmes, Newcastle-on-Tyne      |
|                                 | Holst K., & Co., 1, Victoria St., S.W. 1 .. ..                                    | Victoria 4234                      | Ferrolst, Vic., London         |
| 1 16                            | Holt & Willetts, Lion Works, Cradley Heath .. ..                                  | .. Cradley 12                      | Holt, Willetts, Cradley Heath  |
| 1 6 16 27                       | Hope Henry & Sons, Ltd., Smethwick, Birmingham ..                                 | Central 996 & 999                  | Conservatory, Birmingham       |
| 3 4 16                          | Hopkinson J., & Co., Ltd., Huddersfield .. ..                                     | Huddersfield 1269                  | Hopkinson, Huddersfield        |
|                                 | Hordern & Mason, St. Mary's, Birmingham .. ..                                     | Central 3527                       | Hordern, Vesey St., Birmingham |
|                                 | Horne Engineering Co., St. Peters Lane, Glasgow ..                                | Central 1204                       | —                              |
|                                 | Horseley Bridge & Engineering Co., Ltd., Tipton, Stafford-<br>shire .. .. .       | Tipton 107 & 108                   | Horseley, Tipton               |
| 1 4                             | Horton & Son, Ltd., Alma Works, Darlaston .. ..                                   | Darlaston 1 & 59                   | Horton, Darlaston              |
| 1 3                             | Houston J. W., & Co., Partick Cross, Glasgow .. ..                                | Western 2697                       | Shplumb, Glasgow               |
| 1 4                             | Howard Pneumatic Engineering Co., Ltd., Eastbourne ..                             | .. .. 79X                          | Inventions, Eastbourne         |
|                                 | Hewden, James, & Co., Ltd., Scotland St., Glasgow ..                              | South 2070-1-2<br>Kinning Park 195 | Howden, Glasgow                |
| 3                               | Howell & Co., Ltd., Brook Steel Works, Sheffield ..                               | .. .. 48                           | Howell, Sheffield              |
|                                 | Howell, W. R. & Co., 42, Theobalds Rd., W.C.1 .. ..                               | Holborn 6777                       | —                              |
| 1                               | Howes & Burley, Ltd., Holloway Head, Birmingham ..                                | Midland 2536                       | Hallewell, Birmingham          |
| 1                               | Howie J. & R., Ltd., Hurlford, Kilmarnock .. ..                                   | .. .. 14                           | Howie, Hurlford                |
| 1 4 16                          | Hoyt Metal Co., Ltd., Deodar Rd., Putney, S.W.15                                  | Putney 1323                        | Profanity, Phone, London       |
|                                 | Hudson Thomas, Ltd., Sheepfold Wks., Coatbridge, N.B.                             | Coatbridge 58                      | Hudson, Coatbridge             |
| 2                               | Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds ..                           | .. .. 3540                         | Loco, Leeds                    |
|                                 | Hughes & Lancaster, Liverpool .. .. .                                             | .. .. 2034                         | Diagram, Liverpool             |
|                                 | Hughes & Lancaster, 16, Victoria St., S.W. .. ..                                  | Victoria 4772                      | Voldance, London               |
|                                 | Hull General Pattern Making Works, 58, Strawberry St., Dry-<br>pool, Hull .. .. . | Dry-<br>Central 107Y               | —                              |

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|---------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------------------|
| <b>Humber Graving Dock &amp; Engineering Co., Ltd.,</b> King's Dock, Immingham .. .. .                  | Immingham 77                   | <b>Repairs, Immingham Dock Station</b> |
| <b>Humphreys &amp; Glasgow, Ltd.,</b> 38, Victoria St., S.W. ..                                         | Victoria 609                   | <b>Epistolar, Vic., London</b>         |
| <b>Hunslet Engine Co., Ltd.,</b> Leeds .. .. .                                                          | Leeds 26877                    | <b>Engine, Leeds</b>                   |
| <b>Hunt &amp; Mitton, Ltd.,</b> Oozells St. North, Birmingham ..                                        | Midland 335 & 394              | <b>Mitton, Birmingham</b>              |
| <b>Hunt Thomas, &amp; Sons,</b> Bridge Rd. West, Battersea, S.W. 11                                     | Battersea 261                  | <b>Linking, Battsquare, London</b>     |
| <b>1 4 16 33 Hurst, Nelson &amp; Co., Ltd.,</b> Glasgow Rolling Stock & Plant Works, Motherwell .. .. . | .. .. . 44                     | <b>Nelson, Motherwell</b>              |
| <b>1 4 16 Hyatt, Ltd.,</b> 24, Devonshire St., Theobalds Rd., W.C. 1 (Museum)                           | 3745                           | <b>Hydrolim, Phone, London</b>         |
| <b>Hydraulic Gears, Ltd.,</b> Beaver Lane, Hammersmith, W. 6                                            | Hammersmith 1933               | <b>Hygearlim, Phone, London</b>        |
| <b>4 6 Igranik Electric Co., Ltd.,</b> 147, Queen Victoria St., E.C. ..                                 | Central 7123                   | <b>Igranik, London</b>                 |
| <b>Imperial Engineering Service,</b> 60, Mark Lane, E.C. 3. ..                                          | Avenue 6399                    | —                                      |
| <b>Incandescent Heat Co., Ltd.,</b> British Mills, Smethwick, Birmingham .. .. .                        | Smethwick 276                  | <b>Repeat, Birmingham</b>              |
| <b>India Rubber, Gutta Percha &amp; Telegraph Works Co., Ltd.,</b> 106, Cannon St., E.C. .. .. .        | { Bank 744 }<br>{ Four Lines } | <b>Silvergray, Cannon, London</b>      |
| <b>1 India Rubber, Gutta Percha &amp; Telegraph Works Co., Ltd.,</b> Silvertown, E. ....                | .. .. .                        | <b>Graysilver, Silver, London</b>      |
| <b>1 2 4 Ingersoll-Rand Co.,</b> 165, Queen Victoria St., E.C. .. ..                                    | City 3852                      | <b>Ingersoll, London</b>               |
| <b>1 27 Integral Oxygen Co., Ltd.,</b> 38, Victoria St., S.W. 1. ..                                     | Victoria 2543                  | <b>Centranos, Vic., London</b>         |
| <b>6 International Multigraph Co.,</b> 59, Holborn Viaduct, E.C. 1                                      | City 5685                      | <b>Incomulti, London</b>               |
| <b>Ironite Co., Ltd.,</b> Old Queen St., Westminster, S.W. 1. ..                                        | Victoria 5618                  | <b>Thormotvin, Vic., London</b>        |
| <b>1 3 Jack Alexander, &amp; Co.,</b> Whitegates Engineering Works, Motherwell, Scotland .. .. .        | Motherwell 150                 | <b>Cranes, Motherwell</b>              |
| <b>Jackson Bolders, Ltd.,</b> 83, Kirkstall Rd., Leeds .. .. .                                          | Central 3163                   | —                                      |
| <b>1 Jackson P. R., &amp; Co., Ltd.,</b> Salford Rolling Mills, Manchester. ..                          | City 8620                      | <b>Jacksons, Manchester</b>            |
| <b>1 16 Jacobs Manufacturing Co.,</b> Hartford, Conn., U.S.A. .. ..                                     | .. .. .                        | <b>Jacobchuck, Hartford</b>            |
| <b>Jardine J., Ltd.,</b> Deering St., Nottingham .. .. .                                                | 3295 & 3296                    | <b>Jardine, Nottingham</b>             |
| <b>1 4 16 Jeffrey Manufacturing Co.,</b> 90, North Fourth St., Columbus, Ohio, U.S.A. .. .. .           | .. .. .                        | <b>Jeffrey, Columbus</b>               |
| <b>6 Jenkins R., &amp; Co., Ltd.,</b> Rotherham, Eng. .. .. .                                           | Rotherham 13                   | <b>Jenkins, Rotherham</b>              |
| <b>1 16 Jenkins, W. J., &amp; Co., Ltd.,</b> Beehive Works, Retford, Notts. ..                          | Retford 44                     | <b>Jenkins, Retford</b>                |
| <b>Jennings Edward J.,</b> West Walls, Newcastle-on-Tyne .. .. .                                        | Central 4429                   | <b>Potential, Newcastle-on-Tyne</b>    |
| <b>Jensen &amp; Son,</b> 77, Chancery Lane, W.C. .. .. .                                                | Holborn 1249                   | <b>Venture, London</b>                 |
| <b>Jensen J. &amp; A., &amp; Dahl,</b> Kristiania, Norway .. .. .                                       | .. .. .                        | <b>Myren, Kristiania</b>               |
| <b>John T. G., Ltd.,</b> Holyhead Rd., Coventry .. .. .                                                 | Coventry 964                   | <b>Utility, Coventry</b>               |
| <b>1 2 3 4 16 Johnson &amp; Phillips, Ltd.,</b> Charlton, S.E. 7 .. .. .                                | Greenwich 400                  | <b>Jane, Charlton, London</b>          |
| <b>1 4 16 33 Johnson Richard, Clapham &amp; Morris, Ltd.,</b> Lever St., Manchester .. .. .             | Central 1120                   | <b>Metallics, Manchester</b>           |
| <b>1 16 Jones A. A., &amp; Shipman, Ltd.,</b> East Park Rd., Leicester .. ..                            | 2101                           | <b>Chuck, Leicester</b>                |
| <b>Jones &amp; Lamson Machine Co.,</b> 109, Queen Victoria St., E.C. ..                                 | City 722                       | <b>Turretorum, London</b>              |
| <b>Jopling E., &amp; Sons, Ltd.,</b> Pallion Steel Works, Sunderland ..                                 | Sunderland 741                 | <b>Castings, Sunderland</b>            |

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16 Western Union. 27 Marconi Wireless. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER. |                                                                             | TELEPHONE NUMBER.             | TELEGRAPHIC ADDRESS.         |
|---------------------------------|-----------------------------------------------------------------------------|-------------------------------|------------------------------|
| 1                               | Maye Jos., & Sons, Ltd., 93, High Holborn, W.C.                             | Holborn 1847                  | Lockean, London              |
| 1                               | Maye Jos., & Sons, Ltd., Lock Works, Leeds                                  | 506                           | Wedge, Leeds                 |
| 1 4                             | Mearns H. W., & Co., Ltd., Broadheath, near Manchester                      | Altrincham 221                | Mearns, Altrincham           |
|                                 | Meay E. C. & J., Ltd., Corporation St., Birmingham                          | Central 430                   | Meay, Birmingham             |
| 1 4                             | Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.              | { Holborn 6194<br>Five Lines  | James Keith, London          |
|                                 | Melvin, Bottomley & Baird, Ltd., 16-20, Cambridge St., Glasgow              | { Douglas 2830<br>Three Lines | Meier, Glasgow               |
| 1 4 6 16                        | Kennedy's (Carnyne), Ltd., Shettleston, Glasgow                             | Shettleston 220               | Hukenn, Glasgow              |
|                                 | Kennicott Water Softener Co., Ettingshall Works, Wolverhampton              | Wolverhampton 1138            | Watertanks, Wolverhampton    |
| 1 16                            | Kenrick & Jefferson, Ltd., Multigraph Works, West Bromwich                  | West Bromwich 1001            | Multigraph, West Bromwich    |
| 4                               | Kent George, Ltd., 199, High Holborn, W.C.                                  | Museum 4262                   | Kentobin, Westcent, London   |
|                                 | Kenyon Alexander, & Co., Victoria Bridge, Manchester                        | City 2207                     | Everything, Manchester       |
| 1                               | Kenyon Wm., & Sons, Ltd., Dukinfield, Manchester                            | Ashton 494                    | Kenyon, Dukinfield           |
|                                 | Kermodes, Ltd., 35, The Temple, Dale St., Liverpool                         | Central 6920                  | Warmth, Liverpool            |
| 1                               | King David, & Sons, Ltd., Possil Park, Glasgow                              | Douglas 3300                  | King, Glasgow                |
|                                 | King's Patent Agency, Ltd., 165, Queen Victoria St., E.C.                   | Central 682                   | Geologie, London             |
|                                 | Kirby Banks Screw Co., Ltd., Leeds                                          | Central 20104 & 20105         | Hexagon, Leeds               |
|                                 | Kirk Wheatley, Price & Co., 46, Watling St., E.C.                           | Bank 5077                     | Indices, London              |
|                                 | Kirk Wheatley Price & Co., Albert Sq., Manchester                           | Central 3318                  | Indicator, Manchester        |
|                                 | Kirkaldy, John, Ltd., 101, Leadenhall St., E.C.                             | Avenue 1223                   | Compactum, Led., London      |
|                                 | Kirkstall Forge Co., Ltd., Leeds                                            | Central 174                   | Forge Kirkstall              |
| 1 16 33                         | Kitchen's Reversing Rudder Co., Ltd., 747, Royal Liver Buildings, Liverpool | Bank 4115                     | Reversing, Liverpool         |
| 1 4                             | Kitson Empire Lighting Co., Ltd., Stamford, Lincs.                          | Stamford 328                  | Vaporific, Stamford          |
| 1 3 16                          | Lancashire Dynamo & Motor Co., Ltd. Trafford Park, Manchester               | { City 7450<br>Six Lines      | Ironclad, Manchester         |
| 1 16                            | Lanarkshire Steel Co., Ltd., Motherwell                                     | 7                             | Siemens, Motherwell          |
| 1                               | Lancaster & Tonge, Ltd., Pendleton, near Manchester                         | City 4621                     | Pistons, Manchester          |
| 6                               | Lang John, & Sons, Lathe Makers, Johnstone, N.B.                            | 12                            | Lang, Johnstone              |
| 1 4 16 33                       | Lash Robert H., Ltd., 23, Tavistock Sq., W.C.                               | Museum 6341                   | Fabricants, Phone, London    |
| 1                               | Laurence, Scott, & Co., Ltd., Norwich                                       | 1362 & 1363                   | Gothic, Norwich              |
| 1                               | Lea Recorder Co., Ltd., 28, Deansgate, Manchester                           | City 5040                     | Recording, Manchester        |
| 1 6                             | Leathers Company (Altrincham), Limited, Altrincham, near Manchester         | Altrincham 830                | Leathers Company, Altrincham |
|                                 | Le Bas Edward, & Co., Dock House, Billiter St., E.C.                        | Avenue 5463                   | Gramercy, London             |
| 4                               | Lee Arthur, & Sons, Ltd., Sheffield                                         | Central 4540                  | Crown, Sheffield             |
| 1 27                            | Lee, Howl, & Co., Ltd., Tipton, Staffs.                                     | Tipton 9                      | Howl, Tipton                 |
| 1 2 3 4                         | Leeds Forge Co., Ltd., Leeds                                                | Five Lines 4380               | Vulpes, Leeds                |
| 1 2 6                           | Lees T. & R., Ltd., Hollinwood, near Manchester                             | Failsworth 16                 | Lees, Hollinwood             |
| 11 16                           | Leopold Walford (London), Ltd., 29, Great St. Helens, E.C.                  | Avenue 5666 & 7370            | Skikari, Ltd., London        |
|                                 | Leroy F., & Co., 20, Gray St., Commercial Rd., E.                           | Central 5055                  | Efficiency, London           |
| 1                               | Lewis & Tylor, Ltd., Cardiff                                                | 3230                          | Belting, Cardiff             |

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NUMBER.

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|          |                                                                                         |                             |                               |
|----------|-----------------------------------------------------------------------------------------|-----------------------------|-------------------------------|
| 1        | Library Press, Ltd., 1, Portugal St. Buildings, Portugal St., W.C. 2 .. .. .            | Holborn 1387                | —                             |
| 1 2 4 6  | Lidgerwood Hig. Co., Friars House, New Broad St., E.C. London Wall 7422                 | Lidgerwood, London          |                               |
| 1 4 16   | Lilleshall Co., Ltd., Oakengates, Shropshire .. .. .                                    | Oakengates 28               | Lilleshall, Oakengates        |
|          | Lindsay R. B. & Co., 38, Mair St., Plantation, Glasgow .. .. .                          | .. Ibcox 363                | Concal, Glasgow               |
|          | Lipcombe Fredk. & Co., 49, Queen Victoria St., E.C. 4 .. .. .                           | .. City 2833                | Lipogram, London              |
| 1 2 33   | Lister R. A. & Co., Ltd., Dursley, Glos. .. .. .                                        | .. Dursley 7                | Machinery, Dursley            |
|          | Liverpool Refrigeration Co., Ltd., Colonial House, Liverpool .. .. .                    | Central 6897                | Polar, Liverpool              |
| 1        | Lloyd F. H. & Co., Ltd., James Bridge Steel Works, nr. Wednesbury                       | Darlaston 44                | Steel, Darlaston              |
| 1 4      | Lloyd, Richard, & Co., Galton Works, Steelhouse Lane, Birmingham                        | Central 7251-7254           | Cogs, Birmingham              |
|          | Lebnitz & Co., Ltd., Renfrew, Scotland .. .. .                                          | .. Renfrew 4                | Lebnitz, Renfrew              |
|          | Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield .. .. .                             | Central 1376                | Piston, Sheffield             |
|          | Lockwood Crosby, & Son, 7, Stationer's Hall Court, E.C. .. .. .                         | Central 4421                | Crosby Lockwood, Cent, London |
|          | Lodge Plugs, Ltd., Rugby .. .. .                                                        | Rugby 276                   | Lodge, Rugby                  |
|          | London Aluminium Co., Ltd., Westwood Rd., Aston, Birmingham .. .. .                     | .. East 497                 | Aluminium, Birmingham         |
|          | London & Lancashire Fire Insurance Co., Ltd., 155, Leadenhall St., E.C. .. .. .         | Avenue 7070                 | Polley, Led., London          |
|          | Longbotham Jonathan, & Sons, Ltd., Water Lane, Sheffield .. .. .                        | Four Lines 2461 & 2462      | Survey, Sheffield             |
|          | Longmans, Green & Co., 39, Paternoster Row, E.C. .. .. .                                | City 2670                   | Longmans, Cent., London       |
|          | London Brothers, Ltd., 39, West Campbell St., Glasgow .. .. .                           | Argyle 553                  | Achilles, Glasgow             |
|          | Low Temperature Carbonisation, Ltd., 14 & 16, Cockspur St., S.W. 1 .. .. .              | Central 553                 |                               |
| 1        | Luke & Spencer, Ltd., Canal Eng. Works, Altrincham .. .. .                              | Gerrard 8887                | Lowtemcar, Phone, London      |
|          | Lunken Company, Ltd., 35, Great Dover St., S.E. .. .. .                                 | Altrincham 49               | Emery, Altrincham             |
|          | Lunts, Ltd., Halford St., Leicester .. .. .                                             | .. Hop 4487                 | Lunken, London                |
|          | Luton Engineering Pattern Co., 80a, Princess St., Luton .. .. .                         | Central 3779                | Tools, Leicester              |
| 1 27     | Lyons, Arthur, & Wrench, Ltd., 36, Victoria St., S.W. 1 .. .. .                         | Luton, Beds —               | —                             |
|          | Lyons Oxy-Acetylene Economiser Co., Ltd., Bates Hill, Redditch. .. .. .                 | Victoria 2543               | Centranos, Vic., London       |
| 1 2 4 25 | Lysaght John, Ltd., St. Vincent Ironworks, Bristol .. .. .                              | —                           | —                             |
|          |                                                                                         | 5720                        | Lysaght, Bristol              |
| 1 16     | Mable, Todd, & Co., Ltd., 79 & 80, High Holborn, W.C. 1 [Holborn 2872                   | Goldquill, Westcent, London |                               |
| 1 3      | Machinery & Steels, Ltd., 7, Queen St., E.C. .. .. .                                    | City 4398                   | Achineel, Cannon, London      |
|          | MacLaren Brothers, Ltd., 24, St. Vincent Place, Glasgow .. .. .                         | Central 5066                | —                             |
| 4        | MacLellan P. & W., Ltd., Clutha Works, Glasgow .. .. .                                  | .. Bell 2200                | MacLellan, Glasgow            |
| 4        | MacLellan P. & W., Ltd., 108A, Cannon St., E.C. .. .. .                                 | .. City 2321                | MacLellan, London             |
| 1        | Macmillan & Co., Ltd., St. Martin's St., W.C. 2 .. .. .                                 | Gerrard 8830                | Publish, Westrand, London     |
|          | MacNab John, Mary St., Hyde .. .. .                                                     | .. Hyde 78                  | Lathes, Hyde                  |
| 4 33     | McClintic-Marshall Products Co., 50, Church St., New York, U.S.A. .. .. .               | —                           | Macmarsh, New York            |
| 16 36    | McCord Manufacturing Co., Inc., Detroit, Michigan, U.S.A. .. .. .                       | —                           | McCord, Detroit               |
| 1        | McGowan, Wild & Co., Hurst St., Birmingham .. .. .                                      | Midland 1816                | Logie, Birmingham             |
| 1 4      | McKeechle Brothers, Ltd., Rotton Park St., Birmingham .. .. .                           | Edgbaston 381               | McKeechle, Birmingham         |
|          | McKenzie & Holland, Ltd., 53, Victoria St., Westminster, S.W. .. .. .                   | Victoria 6700               | Macksig, London               |
|          | McKenzie, Holland & Westinghouse Power Signal Co., Ltd., 58, Victoria St., S.W. .. .. . | Two Lines                   |                               |
|          |                                                                                         | Victoria 4760               | Powersig, Sowest, London      |
|          |                                                                                         | Two Lines                   |                               |

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|--------------------------------------------------------------------------------------------------------------|-------------------|--------------------------|
| 1 2 3 6 McKie & Baxter, Copland Works, Govan, Glasgow .. .. Govan 35                                         |                   | Calidad, Glasgow         |
| 1 3 McLachlan & Co., Ltd., Darlington .. .. Darlington 2921                                                  |                   | Railway, Darlington      |
| 1 3 McNeil C., Ltd., Kinning Park Hydraulic Forge, Glasgow .. .. [Ibros 820-3                                |                   | Macneil, Glasgow         |
| McRobie John, & Sons, 94, Elliott St., Glasgow .. .. Central 1241                                            |                   | McRobie, Glasgow         |
| 4 Magnolia Anti-Friction Metal Co. of Great Britain, Ltd.,<br>49, Queen Victoria St., E.C. .. .. City 6596   |                   | Magnolier, London        |
| 1 Malden & Co., Ltd., Hyde, Cheshire .. .. Hyde 29                                                           |                   | Malden, Hyde             |
| 1 Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow .. .. Gorbals 508                                        |                   | Rheostat, Glasgow        |
| Manchester Metal Engraving Co., 272A, Deansgate, Manchester .. .. —                                          |                   | —                        |
| Manchester Steam Users' Association, 9, Mount St., Manchester [Central 4889                                  |                   | Steam Users, Manchester  |
| 1 2 4 Manlove, Allott & Co., Ltd., Nottingham .. .. 274                                                      |                   | Manloves, Nottingham     |
| 1 2 4 Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W. [Gerrard 3405                               |                   | Manloves, London         |
| Manning, Maxwell & Moore, Inc., New York .. .. —                                                             |                   | Cognition, New York      |
| 1 3 Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds .. .. Leeds 24516                                 |                   | Manning, Leeds           |
| 1 Marine & Locomotive Superheaters, Ltd., 28, Victoria St., S.W. r<br>Victoria 1535                          |                   | Ensulm, London           |
| 4 16 Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., E.C. r<br>City 1494                              |                   | Markt, Smith, London     |
| 1 2 6 Marsden H. R., Ltd., Sobro Foundry, Leeds .. .. Central 526                                            |                   | Marsden, Leeds           |
| Marsden S., & Son, Ltd., London Rd., Manchester .. .. Central 2631                                           |                   | Bolts, Manchester        |
| Marshall, Fleming & Co., Ltd., Motherwell .. .. 50                                                           |                   | Delburn, Motherwell      |
| 23 46 16 Marshall, Sons & Co., Ltd., Gainsborough .. .. Gainsborough 125                                     |                   | Marshall, Gainsborough   |
| 23 46 16 Marshall, Sons & Co., Ltd., 3, London Wall Buildings, London<br>Wall, E.C. 2 .. .. London Wall 1667 |                   | Engine, Ave., London     |
| Mason Regulator Co., Boston, Mass., U.S.A. .. .. —                                                           |                   | Masonica, Boston, U.S.A. |
| 1 12 Massey B. & S., Ltd., Openshaw, Manchester .. .. City 8670                                              |                   | Masseys, Openshaw        |
| 1 Maudslay Motor Co., Ltd., Parkside, Coventry .. .. 110                                                     |                   | Maudslay, Coventry       |
| Mavor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow .. .. Bridgeton 960                                  |                   | Prodigious, Glasgow      |
| Waxted & Knott, Ltd., Burnett Avenue, Hull .. .. Central 4300                                                |                   | Energy, Hull             |
| 1 2 Maxwell & Fage, 49, Sefton St., Liverpool .. .. Royal 1817                                               |                   | Galvanizer, Liverpool    |
| Mead Henry, & Co., Ltd., Princes Dock Chambers, Hull [Central 832                                            |                   | Hydromel, Hull           |
| 1 2 Mechans Limited, Scotstoun Ironworks, Glasgow .. .. { Hillhead 2380<br>Western 2629 }                    |                   | Nautical, Glasgow        |
| Meldrums, Ltd., Timperley, near Manchester .. .. Altrincham 181                                              |                   | Meldrum, Altrincham      |
| 1 Merryweather & Sons, Ltd., 63, Long Acre, W.C. .. .. Gerrard 1795                                          |                   | Meryweather, London      |
| Metallic Manufacturing Co., Ltd., Ardrossan .. .. Ardrossan 91                                               |                   | Joining, Ardrossan       |
| 1 2 Metallic Valve Co., Colonial House, Water St., Liverpool [Central 5818                                   |                   | Valve, Liverpool         |
| 1 2 Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne<br>Central 3551-2, Newcastle-on-Tyne             |                   | Ingot, Newcastle-on-Tyne |
| Metropolitan Vickers Electrical Co., Ltd., Trafford Park, Manchester<br>Trafford Park 190-7                  |                   | Metrovick, Manchester    |
| Meyer Montague L., Ltd., 68 & 74, Palmerston House, Old Broad<br>St., E.C. 2 .. .. London Wall 3451          |                   | Emelemlid, Ave., London  |
| 1 Michell Tyre Co., Ltd., 8r, Fulham Rd., Chelsea, S.W. [Kensington 4400                                     |                   | Pneumoclin Telow, London |
| 1 27 Middleton Bros., Westover Works, Pudsey, Leeds<br>Stanningley, Leeds, 275                               |                   | Cranes, Pudsey           |
| 1 4 Middleton Robt., & Co., Sheepscar Foundry, Leeds .. .. 214                                               |                   | Hydraulic, Leeds         |
| 3 4 Middleton Robt., & Co., 22, Martin's Lane, Cannon St., E.C. Bank 5438                                    |                   | Intensifier, London      |
| Midland Presswork Co., Far Gosford St., Coventry .. .. 986                                                   |                   | Piersers, Coventry       |
| Midland Railway Carriage & Wagon Co., Ltd., Midland Works,<br>Birmingham .. .. East 493                      |                   | Wagon, Birmingham        |
| 4 27 33 Midland Rubber Co., Ltd., Ryland St., Birmingham .. .. Midland 453                                   |                   | Mircro, Birmingham       |

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| Mikron Ltd., Madretsch, Bienne, Switzerland .. .. .                                        | 818                    | Mikron, Bienne                 |
| Mild Steel Castings, Ltd., Haymills, Birmingham [Acocks Green 131                          |                        | Mildsteel, Hay Mills           |
| 1 Mills William, Ltd., Grove St., Birmingham .. .. .                                       | Smethwick 9            | Willall, Birmingham            |
| 1 4 33 Millwall Engineering Co. Ltd., 21, Pantons St., S.W. 1                              | Gerrard 1327 & 1328    | Ironware, Charles, London      |
| Milton, Ltd., Besley St., Streatham, S.W. 16 .. .. .                                       | Streatham 1106         | —                              |
| 1 Miris Steel Co., Ltd., Kings House, King St., E.C. 2 .. .. .                             | City 3329              | Mirissimus, Cent., London      |
| Mirreles, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport [Stockport 445                 |                        | Economy, Hazel Grove           |
| 6 Mirreles Watson Co., Ltd., Scotland St., Glasgow {                                       | South Side 1781 & 1783 | Mirreles, Glasgow              |
|                                                                                            | Kinning Park 69        |                                |
| 1 6 Moorlands Engineering Co., Ltd., Leek, Staffs. .. .. .                                 | Leek 101               | Moorlands Eng. Co., Ltd., Leek |
| 4 33 Morgan Crucible Co., Ltd., King's House, King St., E.C. 2                             | Battersea 2250         | Crucible, Phone, London        |
| Morton & Weaver, Cox St., Coventry .. .. .                                                 | 952                    | Precision, Coventry            |
| Moss Gear Co., Ltd., Aston Manor, Birmingham .. .. .                                       | East 407               | Mosgear, Birmingham            |
| Motherwell Bridge Co., Ltd., Motherwell, N.B. .. .. .                                      | 40                     | Bridge, Motherwell             |
| 2 Motor Rail & Tram Car Co., Simplex Works, Bedford .. .. .                                | Bedford 110            | Motral, Bedford                |
| 1 Mountford Fredk., Ltd., Lifford, Birmingham .. .. .                                      | Midland 1317           | Everything, Birmingham         |
| Muir Wm., & Co., Ltd., Sherbourne St., Manchester .. .. .                                  | City 529               | Brianania, Manchester          |
| 1 Mumford A. G., Ltd., Culver St. Engineering Works, Colchester                            | National 129           | Mumford, Colchester            |
|                                                                                            | 223                    |                                |
| 1 Muntz P. H., & Co., Ltd., Alexandra Works, West Bromwich                                 |                        | Muntz, West Bromwich           |
| 4 Munzing H., Ltd., 90-96, Union St., S.E. 1 .. .. .                                       | Hop 4440               | Munzing Sedist, London         |
| 1 Murray, McVlane & Co., Ltd., Mavisbank Quay, Glasgow                                     | Ibrox 899              | Metallic, Glasgow              |
| Musgrave Bros., Crown Point Foundry, Leeds .. .. .                                         | 1226                   | Tools, Leeds                   |
| Musgrave & Co., Ltd., St. Anne's Ironworks, Belfast .. .. .                                | —                      | Musgrave, Ltd., Belfast        |
| 1 Napier Bros. Ltd., 130, Hyde Park St., Glasgow, W. .. .. .                               | Central 6714           | Windlass, Glasgow              |
| Nathan H. L., 16, Regent Place, Birmingham .. .. .                                         | Central 7416           | Expedient, Birmingham          |
| National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage, Manchester .. .. .    | Central 2624           | National, Manchester           |
| National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester                               | 425                    | National, Ashton-under-Lyne    |
| National Lathe Co., 15, West Second St., Cincinnati, Ohio                                  | Main 808               | Elevator, Cincinnati           |
| Neal Geo. H., & Co., Ltd., 11, Southampton Row, W.C. 1                                     | Museum 3681            | Assistamus, London             |
| 4 27 Negretti & Zambra, 38, Holborn Viaduct, E.C. .. .. .                                  | Holborn 583            | Negretti, London               |
| 1 4 New Destructor Co., Ltd., Walter House, Bedford St., Strand, W.C.2. .. .. .            | Gerrard 1840           | Destructor, Westrand, London   |
| New Gutta Percha Co., Ltd., Dashwood House, New Broad St., E.C. 2 .. .. .                  | London Wall 2611       | Guttashea, Ave., London        |
| Newall Engineering Co., Walthamstow, E. 17 .. .. .                                         | Walthamstow 830        | Telltale, Walthill, London     |
| 1 Newalls Insulation Co., Ltd., 31, Moseley St., Newcastle-on-Tyne                         | Central 3435 & 3436    | Newalls, Newcastle-on-Tyne     |
|                                                                                            | E.C. 4                 |                                |
| 1 6 Newbold Walter, & Co., Ltd., 22, Martin Lane, Cannon St.,                              | City 709               | Newbold, London                |
| Newton, Bean & Mitchell, Dudley Hill, Bradford .. .. .                                     | Dudley Hill 125        | Adroit, Dudley Hill            |
| Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield .. .. .                | Central 2200           | Newton, Sheffield              |
| 16 Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), Northallerton, Yorks .. .. . | Gateshead 466          | Nichols, Engineers, Gateshead  |
| 1 16 Nicholson W. T., & Clipper Co., Ltd., Salford, Manchester                             | City 4826              | Clipper, Manchester            |
| 2 4 6 Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A. .. .. .                       | —                      | Nilesco, New York              |
| Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne .. .. .                                | Gateshead 23           | Lathes, Felling                |

Telegraphic Codes in use: 1 A.B.C. 2 A.I. 4 Lieber's. 6 Private. 16 Western Union.

27 Marconi Wireless. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER. |                                                                                     | TELEPHONE NUMBER.          | TELEGRAPHIC ADDRESS.              |
|---------------------------------|-------------------------------------------------------------------------------------|----------------------------|-----------------------------------|
| 16                              | Norbom Engineering Co., Fifth & Ellis Avenue, Darby, Pa., U.S.A. . . . .            | Walnut 2968                | Norbom                            |
|                                 | Normand Augustin, 67, Rue du Perrey, Le Havre, France . . . . .                     | —                          | —                                 |
| 1 4                             | North British Rubber Co., Ltd., 257-259, Oxford St., W. 1 Mayfair                   | 3573 & 4                   | Clinchex, Phone, London           |
| 4                               | North-Eastern Marine Engineering Co., Ltd., Northumberland Wallsend                 | 126 & 127                  | News, Wallsend                    |
|                                 | North Eastern Railway Co., York . . . . .                                           | York 183                   | Chief Goods, Railway, York        |
| 1 4                             | North-European Trading Co., Ltd., Stockholm, Sweden . . . . .                       | —                          | Abnco, Stockholm                  |
| 1                               | Northern Ball Bearings, Ltd., 115, Great Portland St., W. 1 Mayfair                 | 4244                       | Enorbalber, London                |
|                                 | Northern Consulting & Design Office, 67, Dale St., Liverpool . . . . .              | —                          | —                                 |
| 1 4 16                          | Notcutt Walter P., Ltd., 8, White St., Moorfields, E.C. London Wall                 | 5220                       | Ironheads, London                 |
|                                 | Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.B. Central                      | 9781                       | Oakey, London                     |
| 1 16                            | Ohio Body Blower Co., Cleveland, Ohio, U.S.A. . . . .                               | —                          | Swartwout, Cleveland              |
| 1 2 4 16                        | Ollwell Supply Co., Dashwood House, New Broad St., E.C. City                        | 3816                       | Wellcooy, London                  |
|                                 | Olsen, William, Ltd., Cogan St., Hull . . . . .                                     | —                          | —                                 |
| 1                               | Oriental Tube Co., Ltd., West Bromwich . . . . .                                    | West Bromwich 45           | Tubes, West Bromwich              |
| 1 33                            | Ormerod John, & Sons, Ltd., 38 Parliament St., S.W. 1 Victoria                      | 5452                       | Odormerbel, Parl., London         |
| 2 4 5 24                        | Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield [Central                   | 4544                       | Osborn, Sheffield                 |
|                                 | Owen & Crisp, 64, Basinghall St., E.C. 2 . . . . .                                  | —                          | —                                 |
|                                 | Oxy-Acetylene Welding Co., Ltd., 169, Finnieston St., Glasgow Charing               | 1187                       | Fink, Glasgow                     |
|                                 | Paisley, Ltd., 72, Jamaica St., Glasgow . . . . .                                   | { Central 5697-8 }<br>8574 | Outfitter, Glasgow                |
|                                 | Parc, Ltd., Clarence Works, Lockhurst Lane, Coventry                                | Coventry 1127              | Parc, Coventry                    |
|                                 | Parker J. E., P.O. Box 559, Pretoria, South Africa . . . . .                        | —                          | Sondela                           |
| 1                               | Parkinson J., & Son, Shipley, Yorkshire . . . . .                                   | Shipley 80                 | Temples, Shipley                  |
|                                 | Parsons C. A., & Co., Ltd., Heaton Works, Newcastle..                               | Central 3490               | Turbo, Newcastle-on-Tyne          |
|                                 | Parsons C. A., & Co., Ltd., 8, Victoria St., S.W. . . . .                           | Gerrard 5686               | Silently, London                  |
|                                 | Partington Steel & Iron Co., Ltd., Irlam, Manchester                                | Urmston 39 & 40            | Steel, Cadishead                  |
|                                 | Partridges, Ltd., 143, Northwood St., Birmingham . . . . .                          | Central 1639               | Parlim, Birmingham                |
|                                 | Patent Die-Castings Co., Ltd., 64, Strode Rd., N.W. 10 . . . . .                    | Willesden 733              | Dykasyn, Willroad, London         |
| 1 6                             | Patent Lightning Crusher Co., Ltd., 14A, Rosebery Av., Gray's Inn Rd., E.C. . . . . | City 4656                  | Agenciador (10), London           |
| 1                               | Paterson Engineering Co., Ltd., 11, Southampton Row, W.C. 1 Museum                  | 4630                       | Cumulative, Phone, London         |
|                                 | Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton . . . . .                     | 5                          | Paul, Dumbarton                   |
|                                 | Pearn F., & Co., Ltd., West Gorton, Manchester [Central                             | 3012 & 3113                | Pumps, Manchester                 |
|                                 | Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol [Fishponds                    | 6                          | Peckett, Bristol                  |
| 1                               | Pegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow . . . . .                    | Central 3240               | Gummetal, Glasgow                 |
| 1 3                             | Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                                    | Bridgeton 2544             | Penman, Glasgow                   |
| 1                               | Penney & Co., Ltd., City Iron & Steel Works, Lincoln . . . . .                      | 211                        | Screens, Lincoln                  |
|                                 | Pennsylvania Steel Export Co. (of Philadelphia), 47, Victoria St., S.W. 1 . . . . . | Victoria 2531              | —                                 |
|                                 | Pernan & Co., Ltd. 82 & 83, Fenchurch St., E.C. 3                                   | Avenue 5236                | Apermaco, Phone, London           |
|                                 | Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow . . . . .                        | Airdrie 2                  | Pickering, Wishaw                 |
|                                 | Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W. [Westminster                    | 5271                       | Wagonload, London                 |
|                                 | Pickering, Ltd., Globe Elevator Works, Stockton-on-Tees                             | Stockton-on-Tees 578       | Pickering, Stockton-on Tees       |
|                                 | Picketts, Ltd., Mortimer Works, Hove, Sussex . . . . .                              | Hove 3072                  | Picketts, Hove                    |
| 1 4 6                           | Pickles John & Son, Hebden Bridge, Yorks. . . . .                                   | 12                         | Pickles, Engineers, Hebden Bridge |
| 2 16                            | Piggott Thos., & Co., Ltd., Birmingham . . . . .                                    | Central 3922               | Atlas, Birmingham                 |

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16 Western Union. 24 Broomhall's. 33 Bentley's.

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| 1 2 16 Piggott Thos., & Co., 63, Queen Victoria St., B.C.                                     | .. .. City 9752                     | Intersection, London            |
| Pitman Sir Isaac, & Sons, 1, Amen Corner, E.C. 4                                              | .. .. Central 6519                  | Contemporary, Cent., London     |
| 1 33 Pitter's Ventilating & Engineering Co., Ltd., Woolwich, S.E. 18                          | .. .. Woolwich 427 & 624            | Ventiliana, Wol., London        |
| Pittsburgh Iron & Steel Foundries Co., Pittsburgh, Penna., U.S.A.                             | —                                   | —                               |
| Platt Samuel, Ltd., Wednesbury .. ..                                                          | .. .. 60                            | Platt, Wednesbury               |
| 1 Player W. & J., Birmingham .. ..                                                            | .. .. 1404                          | Method, Birmingham              |
| Pleck Foundry Co., Ltd., Darlaston Rd., Walsall ..                                            | .. .. Walsall 492                   | Foundry, Walsall                |
| 1 Plenty & Son, Ltd., Newbury, Berkshire .. ..                                                | .. .. 7                             | Plenty, Newbury                 |
| 1 Pollard Fredk., & Co., Ltd., Corona Works, Leicester, Eng.                                  | .. .. Central 2071                  | Corona, Leicester               |
| 4 Pollock & Macnab, Ltd., Bredbury, Stockport ..                                              | .. .. 613                           | Macnab, Woodley                 |
| 6 Pollock Macnab & Highgate, Shettleston, Glasgow ..                                          | .. .. Shettleston 143               | Highgate, Shettleston           |
| 1 Pontifex & Wood, Ltd., Union Foundry, Derby ..                                              | .. .. 50                            | Zero, Derby                     |
| 1 Pontifex & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C. ..                       | { London Wall 862<br>Central 5198 } | Pontifex, London                |
| 1 Pope's Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W. 10                               | .. .. Willesden 1170                | Planetary, Phone, London        |
| 1 16 Positive Lock Washer Co., 118-122, James Watt St., Glasgow                               | .. .. Central 2982                  | Keystone, Glasgow               |
| Pott, Cassels & Williamson, Motherwell, near Glasgow                                          | .. .. Motherwell 22                 | Pott, Motherwell                |
| 1 3 6 16 Power Gas Corporation, Ltd., Stockton-on-Tees ..                                     | .. .. 501                           | Tetramatic, Stockton-on-Tees    |
| 1 4 16 Power Plant Co., Ltd., West Drayton, Middlesex ..                                      | .. .. Yiewsley 22                   | Roe, West Drayton               |
| 1 Powerite Steam Jointing Co., Ltd., 16 & 17, Devonshire Square, E.C. 2                       | .. .. Bank 5395                     | Powriling, Ave., London         |
| Pratchitt Brothers, Denton Iron Works, Carlisle ..                                            | .. .. 344                           | Pratchitts, Engineers, Carlisle |
| 1 Precision Gauges, Ltd., Wrentham St., Birmingham                                            | .. .. Midland 1016                  | Rekrap, Birmingham              |
| 1 4 Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, Nr. Guildford, Surrey .. | .. .. Shalford 27                   | Precooler, Shalford             |
| 1 4 Premier Gas Engine Co., Ltd., Sandiacre, Nottingham                                       | .. .. Sandiacre 39                  | Premier, Sandiacre              |
| Prescot Engineering Co., Ltd., Prescot, Lancs. ..                                             | .. .. —                             | Yewtree, Prescot                |
| 1 Priestman Bros. Ltd., Holderness Foundry, Hull ..                                           | .. .. 81                            | Priestman, Hull                 |
| 1 Priestman Bros., Ltd., 28, Victoria St., S.W. 1 ..                                          | .. .. Victoria 6171                 | Priestman, London               |
| 1 Priestman T. J., Leopold St., Birmingham ..                                                 | .. .. Midland 282                   | Priestman, London               |
| 1 Princeps & Co., Sheffield ..                                                                | .. .. 2315                          | Princeps, Sheffield             |
| 1 Proctor James, Ltd., Burnley, Lancashire ..                                                 | .. .. 212                           | Proctor, Burnley                |
| 1 Projectile & Engineering Co., Ltd., New Rd., S.W. 8                                         | .. .. Brixton 2117 & 2118           | Profectus, London               |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.                             | .. .. [Victoria 4565                | Pulsometer, London              |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, Berks. ..           | .. .. 583                           | Pulsometer, Reading             |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 15, King St., Leeds ..                            | .. .. 1925                          | Pulsometer, Leeds               |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool ..                       | .. .. 228                           | Pulsometer, Liverpool           |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 160, St. Vincent St., Glasgow ..                  | { City 8526<br>Central 1426 }       | Pulsometer, Glasgow             |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester ..       | .. .. City 45                       | Pulsometer, Manchester          |
| Purden Charles, Ltd., 262, Corporation St., Birmingham                                        | .. .. Central 3135                  | Presses, Birmingham             |
| 16 Pyrene Co., Ltd., 9, Grosvenor Gardens, S.W. 1 ..                                          | .. .. Victoria 8592                 | Pyrenextin, Sotest, London      |
| Radford R. Heber, Son & Squire, 15, St. James Row, Sheffield                                  | .. .. 425                           | Radford, Sheffield              |
| Rahn-Larmon Co., Cincinnati, Ohio, U.S.A. ..                                                  | .. .. —                             | —                               |
| 1 Ramshay & Marshall, Ltd., Birmingham ..                                                     | .. .. Central 7531                  | Ramshay, Birmingham             |
| 2 4 Ransome A., & Co., Ltd., 63, Queen Victoria St., B.C.                                     | .. .. City 8779                     | Ransome, Cent., London          |

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6 Private. 16 Western Union. 33 Bentley's.

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|------------------------------------------------------------------------------|-----------------------------------|-----------------------------|
| 4 Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent                    | 119                               | Ransome, Newark-on-Trent    |
| Ransome-ver Mehr Machinery Co., Ltd., 14 & 16, Grosvenor Gardens, S.W. 1     | Victoria 8660                     | Vermehrlico, Sowest, London |
| 1 27 Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich                   | Ipswich 904                       | Waterside, Ipswich          |
| 1 6 Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich                  | 11                                | Ransomes, Ipswich           |
| 1 6 Ransomes, Sims & Jefferies, Ltd., 34, Old Broad St., B.C. [Central 10817 |                                   | Anglia, London              |
| Rapid Magnetising Machine Co., Ltd., 52, Lombard St., Birmingham             | 1842                              | Borings, Birmingham         |
| Raworth John B., & Moss, 75, Victoria St., S.W. 1                            | Victoria 2025                     | Raworthle, Vic., London     |
| 1 3 Reader E., & Sons, Phoenix Works, Cremorne St., Nottingham               | 414                               | Readers, Nottingham         |
| 4 6 Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich                   | 325                               | Reavell, Ipswich            |
| 1 2 Reay Gearworks, Ltd., Gateshead-on-Tyne                                  | Gateshead 520                     | Gears, Gateshead            |
| Reddaway F., & Co., Ltd., Pendleton, Manchester                              | City 5220                         | Anchorage, Manchester       |
| Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.                      | Gerrard 5878                      | Firosls, London             |
| Reddaway F., & Co., Ltd., 50 and 51, Lime St., B.C.                          | Avenue 2856                       | Reddaway, London            |
| 1 4 27 Redman C., & Sons, Kingston, Halifax                                  | 308                               | Planers, Halifax            |
| 1 27 Redpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh             | Central 1256                      | Redpath, Edinburgh          |
| 2 3 16 Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Bng.         | Wolverhampton 900                 | Hydroturbo, Wolverhampton   |
| Reid Gear Co., Linwood, near Paisley                                         | Johnstone 4 X                     | Reid, Linwood               |
| 1 16 Readie, Blanchard & Co., Ltd., 5, Victoria St., S.W. 1                  | Victoria 8151                     | Renblan, Vic., London       |
| 4 Renold Hans, Ltd., Burnage Works, Didsbury, Manchester                     | Heaton Moor 295                   | Driving, Stockport          |
| Reverman G., The Limes, High View Avenue, Grays, Essex                       |                                   |                             |
| 1 16 Reyrolle A., & Co., Ltd., Hebburn-on-Tyne                               | { Gateshead 279 }<br>Two Lines    | Reyrolle, Hebburn           |
| 4 Rhodes Manufacturing Co., Hartford, Conn., U.S.A.                          | Charter 8429                      | Rhodes, Hartford            |
| 1 Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds                 | 2362                              | Press, Leeds                |
| Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                      | Wednesbury 98                     | Richards, Wednesbury        |
| Richards Geo., & Co., Ltd., Broadheath, nr. Manchester                       | Altrincham 14                     | Richards, Altrincham        |
| Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham             | East 800                          | Westminster, Birmingham     |
| 1 16 Richardson, Westgarth & Co., Ltd., Engine Works, Hartlepool             | 247                               | Richardsons, Hartlepool     |
| Richmond Gas Stove & Meter Co., Ltd., Academy St., Warrington                | { 415 }<br>Three Lines            | Gastoves, Warrington        |
| 16 Riddel John H., Ltd., 40, St. Enoch Square, Glasgow                       | Central 8722                      | Ridel, Glasgow              |
| 1 Robertson Thos. R., 7, Hurst St., Liverpool                                | Central 1935                      | Hydraulic, Liverpool        |
| Robey & Co., Ltd., Lincoln                                                   | 3                                 | Robey, Lincoln              |
| 1 2 4 Robinson T., & Son, Ltd., Rochdale                                     | 467                               | Robinson, Rochdale          |
| 1 Robson John (Shipley), Ltd., Shipley, Yorks.                               | Shipley 57                        | Robsons, Shipley            |
| 1 2 Roe & Harrison, Ltd., Derby                                              | Derby 1054                        | Globe, Derby                |
| 3 Rose, Downs & Thompson, Ltd., Old Foundry, Hull                            | Central 344                       | Rose, Hull                  |
| 1 2 Ross & Duncan, Whitefield Works, Glasgow                                 | 5223                              | Whitefield, Glasgow         |
| Rosser & Russell, Ltd., Queen's Wharf, Hammersmith [Hammersmith 31           |                                   | Lesorus, Hammer, London     |
| 1 4 Rowan David, & Co., Ltd., 231, Elliot St., Glasgow                       | Central 4340                      | Rowan, Glasgow              |
| 1 4 Rowland B. R., & Co., Ltd., Climax Works, Reddish, near Manchester       | Heaton Moor 47                    | Herole, Reddish             |
| Rowse & Co., 1, Dawson St., Whitechapel, Liverpool                           | [Royal 838                        | Prominent, Liverpool        |
| 1 Royce Ltd., Trafford Park, Manchester                                      | Trafford Park 690, 691 & 692      | Switch, Manchester          |
| 1 3 4 Royles, Limited, Irlam, near Manchester                                | { Urmston 68 }<br>Manchester 6718 | Elyor, Cadishead            |

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16 Western Union. 27 Marconi.

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| 1 Rubery, Owen, & Co., Darlaston, South Staffordshire                              | Darlaston 22                   | Roofs, Darlaston           |
| Rudge-Whitworth, Ltd., Sparkhill, Birmingham                                       | Acocks Green 191               | Sphere, Birmingham         |
| Russell G., & Co., Ltd., Motherwell, N.B.                                          | .. 4                           | Russell, Motherwell        |
| 1 2 Russell John, & Co., Ltd., Alma Tube Works, Walsall                            | .. 34                          | Alma, Walsall              |
| 1 2 Russell John, & Co., Ltd., New Spring St., Birmingham                          | Central 1401                   | Belmont, Birmingham        |
| Russell John G., Clydesdale Nail Works, Wishaw, Scotland                           | .. 42                          | Dogsplike, Wishaw          |
| 1 33 Russell's Engineering Co., 37, Adams St., Birmingham                          | Central 5481                   | Nonplus, Birmingham        |
| 4 16 20 Ruston & Hornsby, Ltd., Sheaf Ironworks, Lincoln                           | .. 580-585                     | Ruston, Lincoln            |
| 1 2 3 6 Ruston & Hornsby, Ltd., Spittlegate Ironworks, Grantham                    | .. 120                         | Hornsby, Grantham          |
| 1 2 3 6 Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4                     | .. City 4314-5                 | Ruston, Cannon, London     |
| 1 4 16 33 Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.                          | Lawndale 1                     | Eyson, Chicago             |
|                                                                                    |                                |                            |
| St. George's Engineering Co., Brearley St., Birmingham                             | .. Central 62                  | Phylons, Birmingham        |
| 1 2 4 16 Sanderson, Bros., & Newbold, Ltd., Sheffield                              | .. 4700                        | Sanderson, Sheffield       |
| 1 Sands Geo. & Son, Ltd., Colwick, Nottingham                                      | .. Nottingham 977              | Sands, Colwick, Nottingham |
| 1 5 19 29 Sandycroft Limited, Chester                                              | .. Connahs Quay 2              | Sandycroft, Hawarden       |
| 1 Sankey Joseph, & Sons, Ltd., Wellington, Shropshire                              | Wellington 66                  | Sankey, Wellington, Salop  |
| Saunders S. E., Ltd., East Cowes, Isle of Wight                                    | .. Cowes 193                   | Consuta, East Cowes        |
| 1 Savery T. A., & Co., Ltd., Newcomen Works, Birmingham                            | Central 3599                   | Newcomen, Birmingham       |
| Schneider & Cie., 30, Victoria St., S.W. 1                                         | Victoria 3315                  | —                          |
| School of Accountancy, 2, West Regent St., Glasgow                                 | .. Douglas 144                 | —                          |
| 1 Scott Bros. (Kelghley), Albion Works, Kelghley                                   | .. Kelghley 381                | Scott, Kelghley, 381       |
| Scott David, Polmadie, Glasgow                                                     | .. —                           | Hydrogen, Glasgow          |
| Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C. 4                          | .. City 8257                   | Printeries, Cent., London  |
| Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr, Scotland            | .. Ayr 166                     | Stampings, Ayr             |
| 2 4 16 Scottish Tube Co., Ltd., 34, Robertson St., Glasgow                         | .. { Central 5687<br>Six Lines | Scotubeco, Glasgow         |
| 1 6 Seagers, Ltd., Dartford                                                        | .. Dartford 26                 | Seagers, Dartford          |
| Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C. 4                       | .. [City 440                   | Selsoner, Cent., London    |
| Selwyn James & Co., 20, Essex St., Strand, W.C.                                    | .. Gerrard 2889                | —                          |
| 1 8 Semple Robert, 179, West George St., Glasgow                                   | .. Central 9980 & 9981         | Moderate, Glasgow          |
| Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow                      | .. Glasgow 31                  | Shanks, Johnstone          |
| 1 4 16 Shaw John, & Sons (Wolverhampton), Ltd., Wolverhampton                      | .. 858                         | Shaw, Wolverhampton        |
| Shaw W., & Co., Wellington Cast Steel Foundry, Middlesbrough-on-Tees               | .. 106                         | Wellington, Middlesbrough  |
| Shell Marketing Co., Ltd., Parker St., Kingsway, W.C. 2                            | .. Regent 6110-5               | Shelzine, Westcent, London |
| 1 4 Shepard Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.                | .. —                           | Shephoist                  |
| Shore Instrument & Mfg. Co., Van Wyck Avenue & Carl St., Jamaica, New York, U.S.A. | .. Chelsea 3252                | Shoreinst, New York        |
| 1 Shore Thos., & Sons, Ltd., Etruria, Stoke-on-Trent                               | .. 74                          | Pumps, Stoke-on-Trent      |
| 1 Howell E., & Sons, Ltd., Stitchley, Birmingham                                   | .. King's Norton 95 & 96       | Showell, Stitchley         |
| 16 36 Shuster F. B., Co. (The), New Haven, Conn., U.S.A.                           | .. 2460                        | Adt, Newhaven, U.S.A.      |
| 1 2 Siebe, Gorman & Co., Ltd., Neptune Works, London, S.E.                         | .. Hop 3401                    | Siebe, Lamb., London       |
| 1 2 3 Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 11                         | .. { City 6400<br>Seven Lines  | Siemens, Woolwich          |
| 4 5 16 Simons W., & Co., Ltd., Renfrew, Scotland                                   | .. 3                           | Simons, Renfrew            |
| Sisson W., & Co., Ltd., Gloucester                                                 | .. —                           | Sisson, Gloucester         |
| Skefko Ball Bearing Co., Ltd., Skefko Works, Luton                                 | .. Luton 418                   | Skefko, Luton              |

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6 Private. 8 International. 11 Scott's. 16 Western Union. 19 Universal  
Mining. 20 McNeill's. 33 Bentley's. 36 Postal

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| 1                               | Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A. ..                                       | Park 4519                   | Sleeper, Worcester, Mass.         |
|                                 | Smedley Bros., Ltd., Belper, Derbyshire .. ..                                               | 12                          | Smedleys, Belper                  |
|                                 | Smethwick Stamping Co., Bridge St., Smethwick, Staffs. ..                                   | Smethwick 13                | Droflog, Smethwick                |
| 1 4 16 33                       | Smith F. L., & Co., Ltd., 20, Essex St., W.C.2 ..                                           | Central 2126                | Chalkiness, Estrand, London       |
|                                 | Smith L. & Zoons, Scheeps-en-Werktuigbouw, Kinderdijk, near Rotterdam, Holland .. ..        | 1877                        | Smidszoon, Kinderdijk             |
| 1 6                             | Smith, Barker & Willson, Ltd., Halifax .. ..                                                | Halifax 46                  | Lathe, Halifax                    |
|                                 | Smith Bros & Hill, Ltd., Albert Spring Works, West Bromwich .. ..                           | West Bromwich 125           | Springs, West Bromwich            |
|                                 | Smith E. J., & Co., King's Rd., Hay Mills, Birmingham ..                                    | Acocks Green 208 & 209      | —                                 |
|                                 | Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston ..                                     | P.O. 19                     | Grace, Thrapston                  |
| 3                               | Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow ..                                    | Douglas 2650                | Possil, Glasgow                   |
| 1                               | Smith & Pearson, Ltd., Newcomen Ironworks, Dublin ..                                        | 1499                        | Pearson, Dublin                   |
| 1                               | Smith S., & Sons, Ltd., Grand Hotel Buildings, Trafalgar Sq., W.C. ...                      | Gerrard 2830                | Ruspoli, London                   |
|                                 | Smith Sydney & Sons (Nottingham), Ltd., Nottingham ..                                       | 1537                        | Smiths, Nottingham                |
| 1                               | Smith Thos., & Sons, (Rodley), Ltd., Steam & Electric Crane Works, Rodley, near Leeds .. .. | Stanningley 12 & 18         | Smith, Rodley                     |
| 16                              | Smulders A. F., Schiedam, Rotterdam, Holland .. ..                                          | 194                         | Asmulders, Schiedam               |
| 1                               | Société Genevoise d'Instruments de Physique, 95, Queen Victoria St., E.C.4 .. ..            | Central 7841                | Sogenique, Cent., London          |
| 4 16                            | Sokal S., 1, Great James St., Bedford Row, W.C.1 ..                                         | Holborn 4515                | Sokalsig, London                  |
| 1                               | Somers Walter, Ltd., Halesowen .. ..                                                        | Halesowen 85                | Somers, Halesowen                 |
|                                 | Somerville-Barnard Construction Co., Ltd., Archangel Works, New Cross, S.E. 14 .. ..        | New Cross 828               | —                                 |
|                                 | Southern James W., & Son, Ltd., Store St., Manchester [Central 253 & 4600                   | —                           | Lignum, Manchester                |
|                                 | Spafford Tool Works, Hartford, Conn., U.S.A. ..                                             | —                           | —                                 |
| 1 4 16                          | Sparklets & General Mfg. Co., Ltd., Angel Rd., Edmonton, N.18 Tottenham ..                  | 37 & 60                     | Tottlane, London                  |
|                                 | Spencer John, Ltd., Wednesbury .. ..                                                        | 4 (Two Lines)               | Tubes, Wednesbury                 |
| 1 4                             | Spencer, W. H., & Co., Hitchin, Herts. ...                                                  | Hitchin 5                   | Engine, Hitchin                   |
|                                 | Spon B. & F. N., Ltd., 57, Haymarket, S.W. ..                                               | Gerard 3450                 | Fenspon, Charles, London          |
|                                 | Staffordshire Spring Co., West Bromwich .. ..                                               | —                           | Spiral, West Bromwich             |
|                                 | Staffordshire Tube Co., Ltd., Edmund St., Birmingham ..                                     | Central 6456 & 6447         | Unbeaten, Birmingham              |
|                                 | Standard Engineering Co., Ltd., Leicester .. ..                                             | —                           | Standard, Leicester               |
| 1                               | Standard Piston Ring & Engineering Co., Premier Works, Don Rd., Sheffield .. ..             | 2149                        | Ocean, Sheffield                  |
| 16 33                           | Stead J., & Co., Ltd., Manor Works, Sheffield .. ..                                         | Central 3112                | Steadfast, Sheffield              |
|                                 | Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester .. ..        | Central 1645                | Seafield, Manchester              |
| 1 2 3                           | Steel Company of Scotland, Limited, 23, Royal Exchange Square, Glasgow .. ..                | { City 9436<br>Four Lines } | Steel, Glasgow                    |
| 1                               | Steel Pipe Company, Ltd., Kirkcaldy, N.B. .. ..                                             | 95                          | Aquilentus, Kirkcaldy             |
|                                 | Steinle Turret Machine Co., 53, Victoria St., S.W. ..                                       | Victoria 6175               | Steinle, 53, Victoria St., London |
| 1 3 32                          | Stephenson Robert, & Co., (1914) Ltd., Darlington ..                                        | 2700                        | Rocket, Darlington                |
|                                 | Sterling Metals, Ltd., Coventry .. ..                                                       | Coventry 881                | Stermet, Coventry                 |
| 1                               | Sterne L., & Co., Ltd., Crown Ironworks, Glasgow ..                                         | Douglas 1064-1066           | Crown, Glasgow                    |
| 1                               | Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C. [Gerrard 1969                    | —                           | Elsterne, London                  |
| 1                               | Sterne, Ltd., 16, Finsbury Sq., E.C. .. ..                                                  | Clerkenwell 1875            | Centumvir, Finsquare, London      |
|                                 | Steven A. & P., 181, St. James Rd., Glasgow .. ..                                           | Bell 2171                   | Provanside, Glasgow               |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union. 32 Engineering Standards. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER.                                                                   |  | TELEPHONE NUMBER.        | TELEGRAPHIC ADDRESS.         |
|---------------------------------------------------------------------------------------------------|--|--------------------------|------------------------------|
| Steven & Struthers, Kelvinhaugh, Glasgow .. ..                                                    |  | Western 3375-6           | Bronze, Glasgow              |
| Stevens, Clement, Pneumatic Engineering Co., Ltd., 28, Spenser St., Buckingham Gate, S.W. 1 .. .. |  | Victoria 330             | Pneucleste, Sowest, London   |
| 1 2 4 6 16 Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow Bridgeton 271, 3243 & 3244  |  | Stewart, Glasgow         |                              |
| 3 5 Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow .. ..                                        |  | City 9680                | Lapwelj, Glasgow             |
| 1 3 5 Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham [Midland 1224                       |  | Lloyds, Birmingham       |                              |
| Stilaxite Co., 4, Hanover St., W. 1 .. ..                                                         |  | Mayfair 786              | Tick-Tack, Reg., London      |
| 1 4 16 Stirk John, & Sons, Ltd., Halifax .. ..                                                    |  | 1534                     | Stirk, Halifax               |
| Stokes A., & Co., Green St., Birmingham .. ..                                                     |  | Midland 356              | Stokes, Deritend, Birmingham |
| 1 16 Stone J. B., & Co., Ltd., 135, Finsbury Pavement, E.C. 1 .. ..                               |  | Central 1848             | Sightseer, London            |
| Stoother & Pitt, Ltd., Bath .. ..                                                                 |  | Bath 967                 | Stoother, Bath               |
| Stoother & Pitt, Ltd., 38, Victoria St., S.W. .. ..                                               |  | Victoria 1949            | Stoother, Vic., London       |
| 1 27 Stott Oswald, Ltd., James Watt St., Birmingham .. ..                                         |  | Central 1004             | Blowing, Birmingham          |
| Stott S. S., & Co. Haslingden, near Manchester .. ..                                              |  | 3                        | Elevator, Haslingden         |
| Strachan & Henshaw, Ltd., Bristol .. ..                                                           |  | 432                      | Strashaw, Bristol            |
| 1 Stringer & Co. (Sheffield), Ltd., Sheffield .. ..                                               |  | Attercliffe 22           | Stringer, Wincobank          |
| Stringer Bros., West Bromwich, South Staffs. .. ..                                                |  | West Bromwich 1          | Stringer, West Bromwich      |
| 1 2 Stringers (Cradley Heath), Ltd., Cradley Heath, Staffs. ..                                    |  | Cradley 34               | Elevate, Cradley Heath       |
| Sturtevant Eng. Co., Ltd., 147, Queen Victoria St., E.C. ..                                       |  | Central 7121             | Sturtevant, London           |
| Sudron Thos., & Co., Ltd., Stockton-on-Tees .. ..                                                 |  | Stockton-on-Tees 63      | Sudrons, Stockton-on-Tees    |
| Sugden T., Ltd., 180, Fleet St., E.C. .. ..                                                       |  | Holborn 196              | Tubularity, London           |
| 1 2 4 16 Sulzer Brothers, 31, Bedford Square, W.C. 1 .. ..                                        |  | Museum 4848              | Gebulzer, London             |
| 1 Summers & Payne, Ltd., Southampton .. ..                                                        |  | Southampton 118          | Paynes, Southampton          |
| 1 Summerson Thomas, & Sons, Ltd., Darlington .. ..                                                |  | 2660                     | Summerson, Darlington        |
| Sun Shipbuilding Co., 1428 So. Penn Square, Philadelphia, Pa., U.S.A. .. ..                       |  | —                        | —                            |
| Sunderland Forge & Engineering Co., Ltd., Pallion, Sunderland .. ..                               |  | 1233 {Two Lines}         | Marr, Sunderland             |
| Superheater Corporation, Ltd., 14, New Burlington St., W. 1 .. ..                                 |  | Gerrard 3822             | Lecosuper, Phone, London     |
| Superheater Units, Ltd., 4, Castle Square, Swansea .. ..                                          |  | Central 1396             | Superunits, Swansea          |
| Sutcliffe Bros., Globe Works, Hyde .. ..                                                          |  | Hyde 70                  | Sutcliffe Bros., Hyde        |
| 1 4 Swift George, & Sons, Ltd., Range Bank, Halifax .. ..                                         |  | 497                      | Swiftly, Halifax             |
| Swiss Machine Tool Works, Oerlikon, Switzerland .. ..                                             |  | Zurich 7245 & 6744       | Outil, Oerlikon              |
| 1 8 Talbot Stead Tube Co., Ltd., Walsall .. ..                                                    |  | Walsall 276 & 277        | Talbot, Walsall              |
| 6 Tangyes, Ltd., Cornwall Works, Birmingham .. ..                                                 |  | Central 6460             | Tangyes, Birmingham          |
| 6 Tangyes, Ltd., 35, Queen Victoria St., E.C. .. ..                                               |  | City 5024 (Two Lines)    | Tangyes, London              |
| Tasker's Engineering Co., Ltd., Sheffield .. ..                                                   |  | 1005, 1981 & 971         | Stores, Sheffield            |
| 1 Tattersall A. A., & Co., Blackburn .. ..                                                        |  | Blackburn 6273           | Vitundum, Blackburn          |
| 1 Taylor & Challen, Ltd., Derwent Foundry, Birmingham ..                                          |  | Central 376              | Derwent, Birmingham          |
| 1 Taylor Charles (Birmingham), Ltd., Bartholomew Sq., Birmingham .. ..                            |  | Central 6373, 6374, 6375 | Lathes, Birmingham           |
| 1 6 Taylor & Hubbard, Leicester .. ..                                                             |  | 573                      | Lifting, Leicester           |
| Terry Herbert, & Sons, Ltd., Redditch .. ..                                                       |  | Three Lines 61           | Springs, Redditch            |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private, 8 International. 16 Western Union, 27 Marconi,

| NAME AND ADDRESS OF ADVERTISER.                                                   |                                                                                 | TELEPHONE NUMBER.       | TELEGRAPHIC ADDRESS.      |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------|---------------------------|
| Terry Steam Turbine Co., Hartford, Conn., U.S.A. .. ..                            |                                                                                 | —                       | —                         |
| 1 4                                                                               | Thermofelt, Ltd., 66, Fenchurch St., E.C. 3 .. ..                               | Avenue 2922             | Klaredo, Fen., London     |
| Thermotank Co., 55, West Regent St., Glasgow .. ..                                |                                                                                 | Douglas 2324            | Thermotank, Glasgow       |
| 4 16                                                                              | Thomas & Bishop, 37, Tabernacle St., E.C. 2 .. ..                               | Central 7046            | Velcling, London          |
| Thomlinson John, Ltd., Stanley Works, Partick, Glasgow [Western 1682              |                                                                                 |                         | Printed, Glasgow          |
| 1                                                                                 | Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston .. ..      | Bilston 10              | Thompson Bros., Bilston   |
| 1 3 4 6 16                                                                        | Thompson John (Wolverhampton), Ltd., Wolverhampton .. ..                        | 1138 & 1139             | Boiler, Wolverhampton     |
| 1 3                                                                               | Thornycroft J. I., & Co., Ltd., 10, Grosvenor Place, S.W. 1 .. ..               | Victoria 8000           | Thornycroft, Vic., London |
| 1 3                                                                               | Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W. [Gerrard 9219   |                         | Manageable, London        |
| 1 3                                                                               | Thornycroft J. I., & Co., Ltd., Basingstoke, Hants. .. ..                       | 39                      | Thornycroft, Basingstoke  |
| 1 3                                                                               | Thornycroft J. I., & Co., Ltd., Woolston, Southampton .. ..                     | 415                     | Thornycroft, Southampton  |
| Tickle John, & Co., Ltd., Providence Works, West Bromwich .. ..                   |                                                                                 | West Bromwich 335       | —                         |
| Tilghman's Patent Sand Blast Co., Broadheath, near Manchester .. ..               |                                                                                 | —                       | Tilghmans, Altrincham     |
| 1 4 27                                                                            | Tilling-Stevens Motors, Ltd., Maidstone .. ..                                   | Maidstone 117           | Petelobus, Maidstone      |
| 1                                                                                 | Timbrell & Wright Machine Tool & Eng. Co., Ltd., Birmingham .. ..               | Central 3723            | Revolving, Birmingham     |
| Tinker, Shepton & Co., Ltd., Hyde, near Manchester .. Ashton-u-Lyne 21            |                                                                                 |                         | Duplex, Hyde              |
| Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham .. ..            |                                                                                 | East 248                | Tomey, Birmingham         |
| Tranter's W. J., Boiler Appliance Co., Tipton, Staffordshire .. Tipton 76         |                                                                                 |                         | Titan, Tipton             |
| 1 11                                                                              | Trewent F. J., & Proctor, Ltd., 4, Billiter Buildings, Billiter St., E.C. .. .. | Avenue 121              | Trewent, London           |
| Trier Bros., Ltd., 36, Victoria St., Westminster, S.W. 1 .. Victoria 900          |                                                                                 |                         | Viscosity, Vic., London   |
| Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. .. Roxbury 3710 & 3711 |                                                                                 |                         | Triwrench, Roxbury,       |
| Triplex Safety Glass Co., 1, Albemarle St., W. .. ..                              |                                                                                 | Regent 1340             | Shatterlys, Piccy, London |
| Triumph Stoker, Ltd., Kirkstall Rd., Leeds .. ..                                  |                                                                                 | Central 2184            | Stoker, Leeds             |
| 1 2 3                                                                             | Tubes, Ltd., Birmingham .. ..                                                   | East 871 & 872          | Cylinders, Birmingham     |
| Tubi-Togni, Ltd., Brescia, Italy .. ..                                            |                                                                                 | —                       | —                         |
| 1 4                                                                               | Tuck & Blakemore, Ltd., Coventry .. ..                                          | Coventry 149            | Tuck Blakemore, Coventry  |
| Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow .. ..                      |                                                                                 | 4                       | Tullis, Clydebank         |
| Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E. .. Central 706          |                                                                                 |                         | Kilbowie, London          |
| 1 2                                                                               | Tullis John, & Sons, Ltd., St. Ann's Leather Works, Glasgow .. ..               | 2529                    | Tullis, Glasgow           |
| 1 6                                                                               | Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow .. ..                        | 4294<br>Bishopbriggs 49 | Valve, Glasgow            |
| 1 4 16                                                                            | Turner Bros. Asbestos Co., Ltd., Rochdale .. ..                                 | 941                     | Turners, Rochdale         |
| Turton T., & Sons, Ltd., Sheaf Works, Sheffield .. ..                             |                                                                                 | 1062                    | Turtions, Sheffield       |

Uehling Instrument Co, 2020, Empire Building, New York, U.S.A. — Uehlineo, New York

|       |                                                                                |                        |                            |
|-------|--------------------------------------------------------------------------------|------------------------|----------------------------|
| 1 4 6 | Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C. 4. .. ..     | City 6131<br>Two Lines | Horsepower, Cannon, London |
| 1 4 6 | Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester .. .. | City 5640<br>Two Lines | Strength, Manchester       |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's, 6 Private. 11 Scott's. 16 Western Union. 27 Marconi.



| NAME AND ADDRESS OF ADVERTISER.                                                          | TELEPHONE NUMBER.                | TELEGRAPHIC ADDRESS            |
|------------------------------------------------------------------------------------------|----------------------------------|--------------------------------|
| United Metal Engraving Co., Ltd., 40, High Bridge, New-castle-on-Tyne .. .. .            | 1938                             | Impression, Newcastle-on-Tyne  |
| United Spring Co., Smethwick, Staffs .. .. .                                             | Smethwick 118                    | Tension, Smethwick             |
| 1 4 United States Metallic Packing Co., Ltd., Soho Works, Allerton Rd., Bradford .. .. . | 4705 & 4706                      | Metallic, Bradford             |
| United States Rubber Co., Ltd., 47 & 48, Farrington St., E.C.4 .. .. .                   | Central 8255                     | Khartoum, Cent., London        |
| 1 United Water Softeners, Ltd., Imperial House Kingsway, W.C.2. .. .. .                  | Regent 5270                      | Aquadolce, Estrand, London     |
| 1 Uskside Ironworks, Ltd., Newport, Mon. .. .. .                                         | Newport 3921                     | Uskside, Newport, Mon.         |
| Utting S., 82, Victoria-St., S.W. 1 .. .. .                                              | Victoria 3694                    | —                              |
|                                                                                          |                                  |                                |
| 3 Vacuum Brake Co., Ltd., 32, Queen Victoria St., E.C.4 .. .. .                          | .. Bank 5534                     | Solution, London               |
| 1 2 4 16 Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W. 1 .. .. .             | Victoria 4361                    | Varispeed, Vic., London        |
| 1 Vaughan Crane Co., Ltd., Openshaw, Manchester .. .. .                                  | { Openshaw 256<br>Central 5113 } | Vaunting, Manchester           |
| Vickers Benj. R., & Sons, Ltd., Leeds .. .. .                                            | .. Central 449                   | Vickers, Leeds                 |
| 1 Vickers F. E., 33-35, Robertson St., Glasgow .. .. .                                   | Central 3280                     | Feviker, Glasgow               |
| 2 Vickers Ltd., River Don Works, Sheffield .. .. .                                       | Central 3200                     | Vickers, Sheffield             |
| 2 Vickers Ltd., Vickers House, Broadway, Westminster, S.W. [Gerrard 10110                | Gerrard 10110                    | Vickers, London                |
| 1 16 Vickers-Petters, Ltd., 73, Queen Victoria St., E.C.4 .. .. .                        | Victoria 4875                    | Escapable, Cent., London       |
| Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh [Leith 328                   | Leith 328                        | Shells, Edinburgh              |
| 1 Vitali Carlo, 94, Viale Abruzzi, Milan, Italy .. .. .                                  | .. 21791                         | Vitali, Mercadante 17, Milano  |
| 1 Vosper & Co., Ltd., Broad St., Portsmouth .. .. .                                      | .. 2137                          | Repsov, Portsmouth             |
|                                                                                          |                                  |                                |
| 1 4 Wadkin & Co., London St., Leicester .. .. .                                          | .. 3614                          | Woodworker, Leicester          |
| 1 Wake John Frederick, 123, Victoria Rd., Darlington .. .. .                             | .. 75                            | Wake, Darlington               |
| 1 2 Wakefield C. C., & Co., Wakefield House, Cheapside, E.C. .. .. .                     | Central 11305 & 13466            | Cheery, Cent, London           |
| 1 Walber W. A., & Co., 38, Victoria St., Westminster, S.W. Victoria 3190                 | Victoria 3190                    | Vilvalle, London               |
| 1 4 5 16 Walker Bros. (Wigan), Ltd., Pagefield Ironworks, Wigan .. .. .                  | Wigan 14                         | Pagefield, Wigan               |
| Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E. [East 3084                | East 3084                        | Lionelle, Pop., London         |
| Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs. ...                         | 1197                             | Belting, Bolton                |
| 1 33 Wallsend Slipway & Engineering Co., Ltd., Wallsend .. .. .                          | { Wallsend 117<br>City 412 }     | Wall, Newcastle-on-Tyne        |
| Wallwin & Co., Saltisford Iron Works, Warwick .. .. .                                    | Warwick 81                       | Unbeaten, Warwick              |
| Wallwork Henry, & Co., Ltd., Manchester .. .. .                                          | .. City 8400                     | Foundry, Manchester            |
| Ward M. W., & Co., Ltd., Lionel St., Birmingham .. .. .                                  | Central 7460 & 7461              | Tudor, Birmingham              |
| Ward, Haggas & Smith, Eastwood, Keighley .. .. .                                         | .. Keighley 154                  | Planers, Keighley              |
| 4 Ward T. W., Ltd., Albion Works, Sheffield .. .. .                                      | .. Central 4321                  | Forward, Sheffield             |
| 1 Warner Robert & Co. (Engineers), Ltd., 14 to 16, Cockspur St., S.W. 1 .. .. .          | Gerrard 6164 & 6165              | Hydrological, Westrand, London |
| 1 27 33 Watson T. H., & Co. (Sheffield) Ltd., Neepsend, Sheffield .. .. .                | 1652                             | Cargo, Sheffield               |

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16 Western Union. 27 Marconi. 33 Bentley's.

| NAME AND ADDRESS OF ADVERTISER.                                                                |                                     | TELEPHONE NUMBER. | TELEGRAPHIC ADDRESS.           |
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| 1 2 3 4 } Watson, Laidlaw & Co., Ltd., 98, Dundas St. (South), }<br>16 27 29 } Glasgow .. .. . | South 1700 }<br>Three Lines }       |                   | Fugal, Glasgow                 |
| 1 Watson Stanley J., 37, Sheen Rd., Richmond, S.W. 14                                          | { Richmond, Surrey }<br>1732 & 1733 |                   | Roussillon, Richmond, Surrey   |
| Waygood-Otis, Ltd., Palmouth Rd., S.E. .. ..                                                   | Hop 4001                            |                   | Waygood, Sedist, London        |
| 1 Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                                          | [Stowmarket 22                      |                   | Webb, Combs                    |
| 1 4 Webster & Bennett, Ltd., Foleshill, Coventry ..                                            | Coventry 221                        |                   | Proffle, Coventry              |
| 1 16 Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow                                       | [Langside 450                       |                   | Giweir, Glasgow                |
| 1 Weldless Chains, Ltd., Gartsherrie, Coatbridge ..                                            | Coatbridge 112                      |                   | Weldless, Coatbridge           |
| Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                                   |                                     |                   |                                |
| 1 Wells A. C. & Co., 103, Midland Rd., St. Pancras, N.W. ..                                    | Edgbaston 370                       |                   | Weldless, Birmingham           |
| 1 Wells A. C. & Co., Carnarvon St., Cheetham, Manchester ..                                    | North 341                           |                   | Unbreakable, London            |
| 1 2 4 6 Wells (Henry) Oil Co., 11, Haymarket, S.W. 1 ..                                        | City 1244                           |                   | Unbreakable, Manchester        |
| 1 4 5 Werl Conrad, Haarlem, Holland .. .. .                                                    | Regent 878                          |                   | Olhenweleo, London             |
| Wesson W. & Co., Ltd., Moxley, Wednesbury .. ..                                                | —                                   |                   | Wericonrad, Haarlem            |
| 1 27 West H. J. & Co., Ltd., 72 & 74, Gray's Inn Rd., W.C. 1                                   | Wednesbury 62                       |                   | Iron, Wednesbury               |
| 1 2 16 Western Wheeled Scraper Co., Aurora, Illinois, U.S.A. ..                                | City 3646                           |                   | Frighly, Holb., London         |
| Westinghouse Brake Co., 82, York Rd., King's Cross, N.                                         | Aurora 137                          |                   | Western, Aurora, Illinois      |
| Westinghouse Morse Chain Co., Ltd., The Chaineries, Letchworth, Herts .. .. .                  | North 2416                          |                   | Westinghouse, London           |
| 1 Westminster Engineering Co., Ltd., Victoria Rd., N.W. 10                                     | Letchworth 33                       |                   | Chaindrive, Letchworth         |
| 1 Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W. 15 .. .. .         | [Wilkesden 1700                     |                   | Regency, Phone, London         |
| 1 3 4 Westwood, Joseph & Co., Ltd., Napier Yard, Millwall, E.                                  | Putney 1179                         |                   | Westoleleo, Putney, London     |
| 16 Wharton H., Ltd., Station Rd., Reddish, Stockport                                           | East 4208                           |                   | Westwood, Millwall, London     |
| 4 16 Wheeler Condenser & Engineering Co., Carteret, N.J. U.S.A. {                              | Heaton Moor 408                     |                   | Attachment, Manchester         |
| Whitaker D., 1, Union St., Leicester .. .. .                                                   | { Roosevelt }<br>441-442            |                   | Gbispaia, N.Y., U.S.A.         |
| 1 Whitaker R. G., Ltd., 22, Southward Bridge Rd., S.E. 1 ..                                    | Central 2519                        |                   | Excavator, Leicester           |
| 1 Whitakers (Engineers), Ltd., Horsforth, Leeds ..                                             | Hop 3888                            |                   | Rotating, Boroh, London        |
| White's Injectors, Ltd., Pendleton, Manchester ..                                              | Horsforth 23A                       |                   | Excavators, Leeds              |
| White H. B. & Co., John Dalton St., Manchester ..                                              | Pendleton 53                        |                   | Whites, Pendleton, Manchester  |
| 1 3 4 16 White J. Samuel & Co., Ltd., East Cowes, I.O.W. ..                                    | Central 5561                        |                   | Whiteness, Manchester          |
| 1 White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W. 1                                 | Cowes 3                             |                   | White, East Cowes              |
| 1 2 3 5 16 White Rd., & Sons, Widnes, Lancs. .. .. .                                           | North 2066                          |                   | Saturation, Norwest, London    |
| Widdowson John H., Britannia St., Salford, Manchester                                          | 25                                  |                   | Ralls, Widnes                  |
| Wiggins F., & Sons, 102, 103 & 104, Minories, E. ..                                            | Trafford Park 420                   |                   | Taps, Salford                  |
| Wigglesworth Frank & Co., Ltd., Clutch Works, Shipley, near Bradford .. .. .                   | Avenue 2248                         |                   | Wiggins, Minories, London      |
| Wilkin, Tudor, A., 15, New Broad St., E.C. 2 ..                                                | Shipley 354                         |                   | Clutch, Shipley                |
| 1 Willey James, & Sons, Ltd., Darlaston .. ..                                                  | London Wall 6721                    |                   | Cynonparsu, Avenue, London     |
| 1 Wilcox W. H. & Co., Ltd., 32 to 38, Southwark St., S.E.                                      | Darlaston 83                        |                   | Willey, Darlaston              |
| 1 Willetts, Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs. .. .. .               | Hop 3740                            |                   | Wilcox, Southwark St., London  |
| 4 16 21 Williams J. H. & Co., 91, Richard St., Brooklyn, New York, U.S.A. .. .. .              | —                                   |                   | Willettis Junr., Cradley Heath |
| 4 Wilson J. H. & Co., Ltd., Dock Rd., Birkenhead                                               | Cradley 38                          |                   | Wilrich, New York              |
| 1 6 Wilson William & Co., Lilybank Boiler Works, Glasgow                                       | Birkenhead 1504                     |                   | Engineers, Liverpool           |
| 1 3 4 16 Wilsons & Berry, Ltd., St. Peters, Bedford .. ..                                      | [Bridgeton 3045                     |                   | Boiler, Glasgow                |
|                                                                                                | Bedford 707                         |                   | Agamemnon, Ave., London        |

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|--------------------------------------------------------------------------------------|------------------------------|---------------------------|
| Wincott G. P., Ltd., 180, Attercliffe Rd., Sheffield ..                              | .. Central 590               | Wincott, Sheffield        |
| Winn Charles, & Co., Granville Place, Birmingham [Midland                            | 366 & 1437                   | Winn, Birmingham          |
| Winn W. Martin, & Co., Station Works, Darlaston ..                                   | Darlaston 73                 | Accuracy, Darlaston       |
| Wisconsin Electric Co., Racine, Wisconsin, U.S.A. ..                                 | .. 3591                      | Dunmore, Racine           |
| 1 4 Welsley Motors Ltd., York St., S.W. ..                                           | Victoria 6220                | Autovent, Vic., London    |
| Welsley Motors Ltd., Adderley Park, Birmingham ..                                    | Central 4361                 | Exactitude, Birmingham    |
| 1 4 16 33 Wenham, Bates & Goode (Inc.), 3, London Wall<br>Buildings, E.C. ....       | London Wall 5591             | Astecas, London           |
| Wood Edward, & Co., Ltd., Ocean Iron Works, Manchester<br>Trafford Park 810          |                              | Ventilate, Manchester     |
| Wood Hugh, & Co., Ltd., 65, Fenchurch St., E.C. ..                                   | Avenue 1545                  | Huwood, Fen., London      |
| Woodite Company, Mitcham Common, Surrey ..                                           | Mitcham 1502                 | Woodite, Mitcham          |
| 27 Woodside Engineering Co., Ltd., Possilpark, Glasgow                               | Douglas 1495                 | Fuselage, Glas-gow        |
| 2 4 Werthington-Simpson, Ltd., Queen's House, Kingsway, W.C.:                        | Holborn 3048, 3049 and 3050  | Pumping, Westcent, London |
| Wright John, & Co., Essex Works, Aston, Birmingham                                   | Central 2169                 | Eureka, Birmingham        |
| 1 3 6 Wright's Forge & Engineering Co., Ltd., Tipton, Stafford-<br>shire ..          | .. Tipton 32                 | Wright, Tipton            |
| 6 Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate,<br>E.C. ....              | .. Wall 6585                 | Penetration, London       |
| 4 16 Wrigley E. G., & Co., Ltd., Foundry Lane Works, {<br>Birmingham .. .. .         | Smethwick 148<br>Three Lines | Cutters, Birmingham       |
| Wyld Harry W., Hill Top, West Bromwich ..                                            | .. ..                        | —                         |
| 3 Yarrow & Co., Ltd., Glasgow .. .. .                                                | Western 2082                 | Yarrow, Glasgow           |
| 2 Yates & Thom, Ltd., Canal Works, Blackburn ..                                      | .. 43 & 345                  | Yates, Blackburn          |
| Yorkshire Copper Works, Ltd., Leeds ..                                               | 4360                         | Tubes, Leeds              |
| 1 Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield<br>Attercliffe 129-30 |                              | Engine, Sheffield         |
| 4 25 Youngs, Ryland St. Works, Birmingham .. ..                                      | Midland 301                  | Oldens, Birmingham        |
| 1 Zenith Carburettor Co., Ltd., 40-42, Newman St., W. 1 ..                           | Museum 4812                  | Zenith, Regent, London    |

Telegraphic Codes in use 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union 25 Premier. 27 Marconi. 33 Bentley's.

# KEY TO TELEGRAPHIC ADDRESSES.

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                                       |
|-----------------------------------|---------------------------------------------------------------------------------------|
| Abbott, Newark .. ..              | Abbott & Co. (Newark), Ltd., Newark-on-Trent                                          |
| Abnoko, Stockholm .. ..           | North-European Trading Co., Ltd., Stockholm, Sweden                                   |
| Abnorpess, Manchester .. ..       | Cook, Chas. W., Ltd., 174, Oxford Rd., Manchester                                     |
| Accumulator, Sowest, London .. .. | Drake & Gorham, Ltd., 66, Victoria St., S.W. 1                                        |
| Accuracy, Darlaston .. ..         | Winn W. Martin, & Co., Station Works, Darlaston                                       |
| Accelerator, Sowest, London .. .. | Allen-Liversidge, Ltd., 106, Victoria St., S.W.                                       |
| Achilles, Glasgow .. ..           | London Brothers, Ltd., 39, West Campbell St., Glasgow                                 |
| Achneel, Cannon, London .. ..     | Machinery & Steels, Ltd., 7, Queen St., E.C. 4                                        |
| Ackbridge, Phone, London .. ..    | Hackbridge Cable Co., Ltd., 15, Victoria St., S.W. 1                                  |
| Ackworthlie, Birmingham .. ..     | Ackworthlie John, Ltd., 51 & 54, Coleshill St., Birmingham                            |
| Adamson, Dukinfield .. ..         | Adamson Daniel, & Co., Ltd., Dukinfield                                               |
| Adaptable, Birmingham .. ..       | Adaptable Moulding Machine Co., Stanhope St., Birmingham                              |
| Adopted, Strat., London .. ..     | Grover & Co., Ltd., Carpenters Rd., Stratford, E.                                     |
| Adroit, Dudley Hill .. ..         | Newton, Bean & Mitchell, Dudley Hill, Bradford                                        |
| Adt, Newhaven, U.S.A. .. ..       | Shuster F. B. Co., Newhaven, Conn., U.S.A.                                            |
| Aerography, London .. ..          | Aerograph Co., Ltd., 43, Holborn Viaduct, E.C.                                        |
| Alco, Glasgow .. ..               | Anderson Foundry Co., Ltd., 100, Cheapside St., Glasgow                               |
| Agamemnon Ave., London .. ..      | Wilsons & Berry, Ltd., St. Peters, Bradford                                           |
| Agencior (10), London .. ..       | Patent Lightning Crusher Co., Ltd., 142, Rosebery Avenue, E.C.                        |
| Agroengic, Westcent, London .. .. | Agricultural & General Engineers, Ltd., Central House, Kingsway, [W.C. 2]             |
| Airostyle, Fleet, London .. ..    | Airostyle & Lithos, Ltd., 35, St. Bride St., Ludgate Circus, E.C.                     |
| Ajax, Manchester .. ..            | Dunkerley C. C., & Co., Ltd., Store St., Manchester                                   |
| Alblon, Coventry .. ..            | Alblon Drop Forgings Co., Ltd., Foleshill, Coventry                                   |
| Aldale, New York .. ..            | Dalton Manufacturing Corporation, Inc., 1911, Park Avenue, New York, [U.S.A.]         |
| Alexson, Leeds .. ..              | Alexander, Herbert, & Co., Ltd., Leeds                                                |
| Aldays, Birmingham .. ..          | Aldays & Onions, Ltd., Birmingham                                                     |
| Allen, Sheffield .. ..            | Allen Edgar & Co., Ltd., Imperial Steel Works, Sheffield                              |
| Alley, Glasgow .. ..              | Alley & Maclellan, Ltd., Sentinel Works, Glasgow                                      |
| Allports .. ..                    | American Steel Export Co., Woolworth Building, New York, U.S.A.                       |
| Alma, Walsall .. ..               | Russell John, & Co., Ltd., Alma Tube Works, Walsall                                   |
| Aloyau, Cannon, London .. ..      | Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C.                          |
| Aluminium, Birmingham .. ..       | London Aluminium Co., Ltd., Westwood Rd., Aston, Birmingham                           |
| Alwepool, Phone., London .. ..    | Alloy Welding Processes, Ltd., 14 & 16, Cockspur St., S.W. 1                          |
| Amarilla, Derby .. ..             | Fletcher George, & Co., Ltd., Litchurch, Derby                                        |
| Analytical, Manchester .. ..      | Brownlie & Green, Ltd., Church St., Cheetham, Manchester                              |
| Anchorage, Manchester .. ..       | Reddaway F., & Co., Ltd., Pendleton, Manchester                                       |
| Anderson, Belfast .. ..           | Anderson D., & Son, Ltd., Lagan Works, Belfast                                        |
| Anglia, London .. ..              | Ransomes, Sims & Jefferies, Ltd., Palmerston House, 34, Old Broad [St., E.C.          |
| Angus, Newcastle .. ..            | Angus George, & Co., Ltd., Newcastle-on-Tyne                                          |
| Apermaco, Phone, London .. ..     | Perman & Co., Ltd., 82 & 83, Fenchurch St., E.C. 3                                    |
| Apex, Sheffield .. ..             | Apex Steel Co., Ltd., Penistone Rd., Sheffield                                        |
| Aquadolce, Estrand, London .. ..  | United Water Softeners, Ltd., Imperial House, Kingsway, W.C. 2                        |
| Aquapuro, Cent., London .. ..     | Buhring's Patent Water Purifying Co., 2, Scrutton St., E.C. 2                         |
| Aquilentus, Kirkcaldy .. ..       | Steel Pipe Company, Ltd., Kirkcaldy, N.B.                                             |
| Archdale, Birmingham .. ..        | Archdale Jas., & Co., Ltd., Ledsam St., Birmingham                                    |
| Armstrongs, Birmingham .. ..      | Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham                              |
| Artransic, London .. ..           | Aerial Repeway Transporters, Ltd., Craven House, Kingsway, W.C. 2                     |
| Arwhiteoy, Parl., London .. ..    | Armstrong, Sir W. G., Whitworth & Co., Ltd., 8, Great George St., Westminster, S.W. 1 |

| TELEGRAPHIC ADDRESS.                     | NAME AND ADDRESS OF ADVERTISER.                                                         |
|------------------------------------------|-----------------------------------------------------------------------------------------|
| Asbestos, Bradford .. ..                 | Cresswells' Ltd., Wellington Mills, Bradford                                            |
| Assmolders, Schiedam .. ..               | Smulders A. F., Schiedam, Rotterdam, Holland                                            |
| Assistamus, London .. ..                 | Neal Geo. H., & Co., Ltd., 11, Southampton Row, W.C. 1                                  |
| Aster, Wembley .. ..                     | Aster Engineering Co. (1913), Ltd., Wembley, Middlesex                                  |
| Asteroidal, Rugby .. ..                  | British Thomson-Houston Co., Ltd., Rugby                                                |
| Atkinsaw, Indianapolis .. ..             | Atkins E. C., & Co., Inc., Indianapolis, Indiana, U.S.A.                                |
| Atlas, Birmingham .. ..                  | Piggott Thos., & Co., Ltd., Birmingham                                                  |
| Atlas, Gloucester .. ..                  | Fielding & Platt, Ltd., Atlas Works, Gloucester                                         |
| Atlas, Sheffield .. ..                   | Brown John, & Co., Ltd., Sheffield                                                      |
| Attachment, Manchester .. ..             | Wharton H., Ltd., Station Rd., Reddish, Stockport                                       |
| Automobile, Glasgow .. ..                | Aiblon Motor Car Co., Ltd., Scotstoun, Glasgow                                          |
| Autvent, Vic., London .. ..              | Wolsley Motors, Ltd. York St., Westminster, S.W.                                        |
| Avatub, Westcent, London .. ..           | De Laval Steam Turbine Co., 150, Southampton Row, W.C.                                  |
| Avelling, Rochester .. ..                | Avelling & Porter, Ltd., Rochester                                                      |
| Avery, Birmingham .. ..                  | Avery W. T., Ltd., Soho Foundry, Birmingham                                             |
| Aztecas, London .. ..                    | Wenham, Bates & Goode, Inc., 3, London Wall Buildings, E.C.                             |
| Bagnall, Stafford .. ..                  | Bagnall W. G., Ltd., Castle Engine Works, Stafford                                      |
| Balderston, Glasgow .. ..                | Balderston & Co., Ltd., 201, St. Vincent St., Glasgow                                   |
| Baldwin, Philadelphia .. ..              | Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A.          |
| Barclayson, Kilmarnock .. ..             | Barclay Andrew, Sons, & Co., Ltd., Caledonia Works, Kilmarnock                          |
| Barford, Peterborough .. ..              | Barford & Perkins, Ltd., Peterborough                                                   |
| Barr, Kilmarnock .. ..                   | Barr, Thompson & Co., Ltd., Kilmarnock, Scotland                                        |
| Barry, Aberdeen .. ..                    | Barry, Henry, & Co., Ltd., Aberdeen                                                     |
| Battery, Selly Oak .. ..                 | Birmingham Battery & Metal Co., Ltd., Birmingham                                        |
| Bayley, Sheffield .. ..                  | Brown Bayley's Steel Works, Ltd., Sheffield                                             |
| Bayliss, Wolverhampton .. ..             | Bayliss, Jones & Bayliss, Ltd., Wolverhampton                                           |
| Beacon, Salford .. ..                    | Bailey W. H., & Co., Ltd., Albion Works, Salford, Manchester                            |
| Beardmore, Glasgow .. ..                 | Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow                           |
| Beardshaw, Sheffield .. ..               | Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield                                |
| Beaucoup, Kensal, London .. ..           | Glacier Anti-Friction Metal Co., Ltd., Waldo Rd., Willesden Junction, [N.W.]            |
| Beebee, Follings Heath, Wednesbury .. .. | Beebee A., Wednesbury                                                                   |
| Bellify or Asbestos, London .. ..        | Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.E.                              |
| Bellamy, London .. ..                    | Bellamy John, Ltd., Millwall, E.                                                        |
| Belliss, Birmingham .. ..                | Belliss & Morecom, Ltd., Ledsam St. Works, Birmingham                                   |
| Belmont, Birmingham .. ..                | Russell John, & Co., Ltd., New Spring St., Birmingham                                   |
| Belling, Bolton .. ..                    | Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs.                            |
| Belling, Cardiff .. ..                   | Lewis & Tylor, Ltd., Cardiff                                                            |
| Bennis, Little Hulton, Bolton .. ..      | Bennis Ed., & Co., Ltd., Little Hulton, Bolton                                          |
| Bepeco, Glasgow .. ..                    | British Electric Plant Co., Ltd., 66, Carrick St., Glasgow                              |
| Bergius, Glasgow .. ..                   | Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow                           |
| Berrys, Sowerby Bridge .. ..             | Berry F., & Sons, Sowerby Bridge, Yorkshire                                             |
| Bertram, Edinburgh .. ..                 | Bertrams Limited, Sciennes, Edinburgh                                                   |
| Bessemer, Sheffield .. ..                | Bessemer Henry, & Co., Ltd., Sheffield                                                  |
| Bird, London .. ..                       | Bolling & Lowe, 2, Laurence Pountney Hill, E.C.                                         |
| Birkett, Hanley .. ..                    | Birkett T. M., & Sons, Ltd., Hanley, Staffordshire                                      |
| Blackstone, Stamford .. ..               | Blackstone & Co., Ltd., Rutland Works, Stamford                                         |
| Blakeboroughs, Brighouse .. ..           | Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks                        |
| Blaxon, Glasgow .. ..                    | Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow                           |
| Blowing, Birmingham .. ..                | Stott Oswald, Ltd., James Watt St. Birmingham                                           |
| Blundell, Pop., London .. ..             | Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E. |
| Bodley, Exeter .. ..                     | Bodley Bros. & Co., Old Quay Foundry, Exeter                                            |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                                       |
|---------------------------------|---------------------------------------------------------------------------------------|
| Boller, Cradley Heath ..        | .. Cradley Boller Co., Ltd., Cradley Heath, Staffordshire                             |
| Boller, Glasgow ..              | .. Wilson William, & Co., Lilybank Boiler Works, Glasgow                              |
| Boller, Wolverhampton ..        | .. Thompson John (Wolverhampton) Ltd., Wolverhampton                                  |
| Boilers, Halifax ..             | .. Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.                                 |
| Boilers, Loughborough ..        | .. Coltman Walter W., & Co., Ltd., Central Boiler Works, Loughborough                 |
| Bolis, Manchester ..            | .. Marsden S., & Son, Ltd., London Rd., Manchester                                    |
| Bonaccord, Glasgow ..           | .. Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow, W.                         |
| Borings, Birmingham ..          | .. Rapid Magnetising Machine Co., Ltd., 52, Lombard St., Birmingham                   |
| Boss, Leicester ..              | .. British Steam Specialities, Ltd., Bedford St., Leicester                           |
| Boulton, Norwich ..             | .. Boulton & Paul, Ltd., Norwich                                                      |
| Bowran, Newcastle-on-Tyne ..    | .. Bowran Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne           |
| Bothauling, Fen., London ..     | .. British Ropeway Engineering Co., Ltd., 7, Mincing Lane, E.C. 3                     |
| Bralme, Hunslet, Leeds ..       | .. Bralme T. F., & Co., Ltd., Hunslet, Leeds                                          |
| Brake, Manchester ..            | .. Gresham & Craven, Ltd., Salford, Manchester                                        |
| Brakes, West Bromwich ..        | .. Electro Mechanical Brake Co., Ltd., Eagle Works, West Bromwich                     |
| Brampton, Birmingham ..         | .. Brampton Bros., Ltd., Birmingham                                                   |
| Brantford, Liverpool ..         | .. Furness, Withy, & Co., Ltd., Liverpool                                             |
| Brecknell, Bristol ..           | .. Brecknell, Munro & Rodgers, Ltd., Thrissell St., Bristol                           |
| Bridge, Motherwell ..           | .. Motherwell Bridge Co., Ltd., Motherwell, N.B.                                      |
| Brins Oxygen, London ..         | .. British Oxygen Co., Elverton St., Westminster, S.W.                                |
| Briqueite, Leeds ..             | .. Briqueite Machinery, Ltd., Charnmouth St., Leeds                                   |
| Britannia, Manchester ..        | .. Muir Wm., & Co., Ltd., Sherbourne St., Manchester                                  |
| Britnicos, Westrand, London ..  | .. British Niclausse Boiler Co., Ltd., The Clock House, Arundel St., Strand, W.C. 2   |
| Britoolmak, Phone, London ..    | .. Associated British Tool Makers, Ltd., 17, Grosvenor Gardens, S.W. 1                |
| Broadbent, Huddersfield ..      | .. Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield                           |
| Bromkirk, Sowerth, London ..    | .. Braithwaite & Co., 117, Victoria St., S.W. 1                                       |
| Bronplat, Forest, London ..     | .. Butler-Jones (Nameplates), Ltd., Dartmouth Works, Forest Hill, S.E. 23             |
| Bronze, Glasgow ..              | .. Steven & Struthers, Kelvinhaugh, Glasgow                                           |
| Bronze, Longport ..             | .. Billington & Newton, Ltd., Longport, Stoke-on-Trent                                |
| Broom, High Wycombe ..          | .. Broom & Wade, Ltd., High Wycombe                                                   |
| Brotherhood, Peterborough ..    | .. Brotherhood Peter, Ltd., Peterborough                                              |
| Brownengin, Cleveland ..        | .. Browning Co., Cleveland, Ohio, U.S.A.                                              |
| Brownholt, Cleveland, U.S.A. .. | .. Brown Holting Machinery Co., Cleveland, Ohio, U.S.A.                               |
| Bucktons, Leeds ..              | .. Buckton Joshua, & Co., Ltd., Leeds                                                 |
| Budgett, Chelmsford ..          | .. Budgett H. M., Crown Works, Chelmsford                                             |
| Buffaloes, Sowerth, London ..   | .. Buffalo Forge Co., Ltd., Buckingham Gate, S.W. 1                                   |
| Bullard, Bridgeport ..          | .. Bullard Machine Tool Co., Bridgeport, Conn., U.S.A.                                |
| Bullivants, Fen., London ..     | .. Bullivant & Co., Ltd., 72, Mark Lane, E.C.                                         |
| Burmesters, Copenhagen ..       | .. Burmeister & Wain's Ltd., Copenhagen C., Denmark                                   |
| Burmese, Birmingham ..          | .. Suckling William, & Sons, Cradley Heath, Staffs.                                   |
| Burnet, Glasgow ..              | .. Forth Shipbuilding & Engineering Co., Ltd., Moor Park Boiler Works, Govan, Glasgow |
| Burys, Sheffield ..             | .. Burys & Co., Ltd., Sheffield                                                       |
| Buslirs, Led., London ..        | .. Hampton & Doan, Clifton Works, Wednesbury                                          |
| Butler, Halifax, England ..     | .. Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax, Eng.                   |
| Cables, Manchester ..           | .. Glover W. T., & Co., Ltd., Trafford Park, Manchester                               |
| Callacrom-Churton, London ..    | .. Burton, Griffiths & Co., Ltd., 64 to 70, Vauxhall Bridge Rd., S.W. 1               |
| Calidad, Glasgow ..             | .. McKillo & Baxter, Copland Works, Govan, Glasgow                                    |
| Camgas, Halifax ..              | .. Campbell Gas Engine Co., Ltd., Halifax, England                                    |
| Cammellaird, London ..          | .. Cammell Laird & Co., Ltd., 3, Central Bldgs., Westminster, S.W.                    |
| Cammellaird, Sheffield ..       | .. Cammell Laird & Co., Ltd., Cyclops Steel and Iron Works, Sheffield                 |
| Carbon, Pittsburgh, U.S.A. ..   | .. Carbon Steel Co., Pittsburgh, Penna., U.S.A.                                       |
| Carborundum, Manchester ..      | .. Carborundum Co., Ltd., Trafford Park, Manchester                                   |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                         |
|---------------------------------|-------------------------------------------------------------------------|
| Cargo, Sheffield .. ..          | Watson T. H., & Co. (Sheffield), Ltd., Neepsend, Sheffield              |
| Carriage, Smethwick, Birmingham | Birmingham Railway Carriage & Wagon Co., Ltd., Smethwick, Birmingham    |
| Carrouade, Falkirk .. ..        | Carron Company, Carron, Stirlingshire                                   |
| Carwheel .. ..                  | Fuller-Lehigh Co., Fullerton, Pa., U.S.A.                               |
| Casements, Smethwick .. ..      | Hope, Henry & Sons, Smethwick, Birmingham                               |
| Castings, Sheffield .. ..       | Brightside Foundry & Engineering Co., Ltd., Sheffield                   |
| Castings, Sunderland .. ..      | Jopling E., & Sons, Ltd., Pallion Steel Works, Sunderland               |
| Castleton, Manchester .. ..     | Bridge David, & Co., Ltd., Castleton, Manchester                        |
| Caulking, Fickey, London .. ..  | Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly, |
| Centranos, Vic., London .. ..   | Integral Oxygen Co., Ltd., 38, Victoria St., S.W. 1 [W. 1]              |
| Centranos, Vic., London .. ..   | Lyon Arthur, & Wrench, Ltd., 36, Victoria St., S.W. 1                   |
| Centumvir, Finsquare, London    | Sterns Ltd., Finsbury Square, E.C.                                      |
| Chadburn, Liverpool .. ..       | Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs.       |
| Chaindrive, Letchworth .. ..    | Westinghouse Morse Chain Co., Ltd., Letchworth, Herts                   |
| Chains, Coventry .. ..          | Coventry Chain Co., Ltd., Coventry                                      |
| Chalkiness, Estrand, London     | Smith F. L., & Co., Ltd., 20, Essex St., W.C. 2                         |
| Chambers, Oulton Broad .. ..    | Chambers John, Ltd., Oulton Broad, Lowestoft                            |
| Champ .. ..                     | Champion Tool Works Co., Cincinnati, Ohio, U.S.A.                       |
| Channeled, Derby .. ..          | Alton & Co., Ltd., Derby                                                |
| Chaplin, Glasgow .. ..          | Chaplin Alex., & Co., Ltd., Govan, Glasgow                              |
| Chatwin, Birmingham .. ..       | Chatwin Thos., Ltd., Gt. Tindal St., Birmingham [Rd., S.B]              |
| Cheaper, Char., London .. ..    | Harvey G. A., & Co. (London, Ltd.), Greenwich Metal Wks., Woolwich      |
| Cheery, Cent, London .. ..      | Wakefield C. C., & Co., Wakefield House, 30 & 32, Cheapside, E.C.       |
| Chief Goods, Railway, York      | North Eastern Railway Co., York                                         |
| Childrod, Birmingham .. ..      | Croft A. J., & Co., Ltd., Holly Lane, Perry Bar, Birmingham             |
| Chuck, Leicester .. ..          | Jones A. A., & Shipman, Ltd., East Park Rd., Leicester                  |
| Cindlathe .. ..                 | Cincinnati Lathe & Tool Co., Oakley, Cincinnati, Ohio, U.S.A.           |
| Clark, Hull .. ..               | Clarke George, & Sons (Hull), Ltd., Waterhouse Lane, Hull               |
| Claytons, Lincoln .. ..         | Clayton & Shuttleworth, Ltd., Lincoln                                   |
| Cleveland, Darlington .. ..     | Cleveland Bridge & Engineering Co., Ltd., Darlington                    |
| Clideil, Johnstone .. ..        | Clifton & Waddell, Johnstone, near Glasgow                              |
| Clinchex, Phone, London .. ..   | North-British Rubber Co., Ltd., 257-259, Oxford St., W. 1               |
| Clipper, Manchester .. ..       | Nicholson W. T., & Clipper Co., Ltd., Salford, Manchester               |
| Clutch, Shipley .. ..           | Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, nr. Bradford    |
| Clyde, Hallside, Lanarkshire    | Clyde Nail Co., Ltd., Newton, nr. Glasgow                               |
| Cockburn, Glasgow .. ..         | Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                   |
| Cognition, New York .. ..       | Manning, Maxwell & Moore, Inc., New York                                |
| Cogs, Birmingham .. ..          | Lloyd Richard, & Co., Galton Works, Steelhouse Lane, Birmingham         |
| Cole, Bradford .. ..            | Cole, Marchant & Morley, Ltd., Bradford                                 |
| Coles, Derby .. ..              | Coles H. J., Ltd., London Crane Works, Derby                            |
| Coltmans, Loughborough .. ..    | Coltman H., & Sons, Loughborough                                        |
| Colville, Motherwell .. ..      | Colville David, & Sons, Ltd., Dalzell Steel & Iron Works, Motherwell,   |
| Colville, London .. ..          | Colville David, & Sons, Ltd., 54, Old Broad St., E.C. 3 [near Glasgow   |
| Compactum, Led., London         | Kirkaldy John, Ltd., 101, Leadenhall St., E.C. 3                        |
| Compass, Glasgow .. ..          | Dobbe, McInnes, Ltd., 57, Bothwell St., Glasgow                         |
| Concordance, Ave., London       | Electric Construction Co., Ltd., 9, New Broad St., E.C. 2               |
| Concal, Glasgow .. ..           | Lindsay R. B., & Co., 38, Mair St., Plantation, Glasgow                 |
| Consuta, East Cowes .. ..       | Saunders S. E., Ltd., East Cowes, Isle of Wight                         |
| Contact, Altrincham .. ..       | Holme Edward, & Co., Ltd., Altrincham, Cheshire                         |
| Contemporary, Cent., London     | Pitman Sir Isaac & Sons, Ltd., 1, Amen Corner, E.C. 4                   |
| Control, Glasgow .. ..          | Electric Control, Ltd., Bridgeton, Glasgow                              |
| Conveyor, Accrington .. ..      | Conveyor & Elevator Co., Accrington, Lancashire                         |
| Coordinate, York .. ..          | Cooke T., & Sons, Ltd., Buckingham Works, York                          |
| Copper Co., London .. ..        | Broughton Copper Co., Ltd., London                                      |
| Copper Co., Manchester .. ..    | Broughton Copper Co., Ltd., Manchester                                  |

| TELEGRAPHIC ADDRESS.                          | NAME AND ADDRESS OF ADVERTISER.                                                        |
|-----------------------------------------------|----------------------------------------------------------------------------------------|
| Corona, Leicester ..                          | .. Pollard Fredk., & Co., Ltd., Corona Works, Leicester, Eng.                          |
| Corrugated, Glasgow ..                        | .. Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow            |
| Corrugated, Grace, London ..                  | .. Beldam Packing & Rubber Co., Ltd., 29 Gracechurch St., E.C.3                        |
| Côtierbê, Paris ..                            | .. Côte-Rêbê Jean, 79, Rue Lafayette, Paris                                            |
| Courteous, Eusroad, London ..                 | .. Braby Fredk., & Co., Ltd., Fitzroy Works, 352-364, Euston Rd., N.W.                 |
| Covers, Birmingham ..                         | .. Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham                        |
| Craddock, Wakefield ..                        | .. Craddock Geo., & Co., Ltd., Wire Rope Works, Wakefield                              |
| Craig-Donald, Johnstone ..                    | .. Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.                                 |
| Craig, Paisley ..                             | .. Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley                          |
| Cranes, Aberdeen ..                           | .. Henderson John M., & Co., King's Works, Aberdeen, Scotland                          |
| Cranes, Bedford ..                            | .. Bedford Engineering Co., Bedford, England                                           |
| Cranes, Motherwell ..                         | .. Jack Alexander, Whitegates Engineering Wks., Motherwell, Scotland                   |
| Cranes, Pudsey ..                             | .. Middleton Bros., Westover Works, Pudsey, Leeds                                      |
| Cranes, Reddish ..                            | .. Heywood S. H., & Co., Ltd., Reddish                                                 |
| Cranes, Rodley ..                             | .. Booth Joseph, & Bros., Rodley, Leeds                                                |
| Cranks, Lincoln ..                            | .. Clarke's Crank & Forge Co., Ltd., Lincoln                                           |
| Cranks, Lincoln ..                            | .. Farrar Boller Works, Ltd., Lincoln                                                  |
| Craven, Reddish ..                            | .. Craven Brothers (Manchester), Ltd., Vauxhall Wks., Reddish, Stockport               |
| Craven, Wakefield ..                          | .. Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield                          |
| Crofters, Bradford ..                         | .. Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorkshire                            |
| Crosby, London ..                             | .. Crosby Valve & Engineering Co., Ltd., 147, Queen Victoria St., E.C. 4.              |
| Crown, Glasgow ..                             | .. Sterne L., & Co., Ltd., Crown Ironworks, Glasgow                                    |
| Crown, Gortonbrook ..                         | .. Higginbottom & Mannoek, Ltd., West Gorton, Manchester                               |
| Crown, Sheffield ..                           | .. Lee Arthur & Sons, Ltd., Sheffield                                                  |
| - Crucible, Phone, London ..                  | .. Morgan Crucible Co., Ltd., Church Rd., S.W. 11                                      |
| Cryolite, Cent., London ..                    | .. British Aluminium Co., Ltd., 109, Queen Victoria St., E.C. 4                        |
| Cumulative, Phone, London ..                  | .. Paterson Engineering Co., Ltd., 11, Southampton Row, W.C. 1                         |
| Curtis, Bridgeport, Conn. ..                  | .. Curtis & Curtis Co., 77, Garden St., Bridgeport, Conn.                              |
| Cushman, Hartford ..                          | .. Cushman Chuck Co., Hartford, Conn., U.S.A.                                          |
| Cusmece, New York ..                          | .. Church Street Machinery & Engineering Corporation, 30, Church St., New York, U.S.A. |
| Cutters, Birmingham ..                        | .. Wrigley E. G., & Co., Ltd., Foundry Lane Works, Birmingham                          |
| Cyclops, Gateshead ..                         | .. Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne                                      |
| Cylinders, Birmingham ..                      | .. Tubes Ltd., Birmingham                                                              |
| Cynonparsu, Avenue, London ..                 | .. Wilkin Tudor A., 15, New Broad St., E.C. 2                                          |
| Dangerfield, Goldthorn Hill, Wolverhampton .. | .. Dangerfield W. & J., Goldthorn Hill, Wolverhampton                                  |
| Daniell, Birmingham ..                        | .. Daniell S. A., Ltd., Edward St., Parade, Birmingham                                 |
| Daniels, Stroud ..                            | .. Daniels T. H. & J., Ltd., Stroud, Glos.                                             |
| Danks, Netherton, Dudley ..                   | .. Danks H. & T. (Netherton), Ltd., Netherton, Dudley                                  |
| Dawsons, Lincoln ..                           | .. Dawson James, & Son, Ltd., Boulton Works, Lincoln                                   |
| Day Summers, Southampton ..                   | .. Day, Summers & Co., Ltd., Northam Ironworks, Southampton                            |
| Deasy, Coventry ..                            | .. Armstrong Siddeley Motors, Ltd., Coventry                                           |
| Deilingpole, Birmingham ..                    | .. Burton, Deilingpole & Co., Moseley St., Birmingham                                  |
| Deilburn, Motherwell ..                       | .. Marshall, Fleming & Co., Ltd., Motherwell, N.B.                                     |
| Delta, Eastgren, London ..                    | .. Delta Metal Co., Ltd., East Greenwich, S.E.                                         |
| Dempster, Elland ..                           | .. Dempster R., & Sons, Ltd., Elland, Yorks                                            |
| Dempster, Glasgow ..                          | .. Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow                             |
| Denwateat, Vic., London ..                    | .. Denison Samuel, & Son, Ltd., 28, Victoria St., S.W. 1                               |
| Derwent, Birmingham ..                        | .. Taylor & Challen, Ltd., Derwent Foundry, Birmingham                                 |
| Destructor, Westrand, London ..               | .. New Destructor Co., Ltd., Walter House, Bedford St., Strand, W.C.                   |
| Diagoba, Westrand, London ..                  | .. Constable & Co., 10, Orange St., Leicester Sq., W.C.                                |
| Diagram, Liverpool ..                         | .. Hughes & Lancaster, Liverpool                                                       |



| TELEGRAPHIC ADDRESS.                | NAME AND ADDRESS OF ADVERTISER.                                              |
|-------------------------------------|------------------------------------------------------------------------------|
| Diamond, Carnoustie .. ..           | Anderson-Grice Co., Ltd., Carnoustie, Scotland                               |
| Dieselmot, Estrand, London ..       | Atlas Diesel Co., Ltd., 35, Surrey St., W.C. 2                               |
| Distend, Vic., London .. ..         | Expanded Metal Co., Ltd., York Mansions, York St., Westminster, [S.W.]       |
| Dockyard, Dublin .. ..              | Dublin Dockyard Co., Ltd., North Wall, Dublin                                |
| Dogslike, Wishaw .. ..              | Russell John G., Clydesdale Nail Works, Wishaw, Scotland                     |
| Dolphin, Leeds .. ..                | Campbells & Hunter, Ltd., Dolphin Foundry, Leeds                             |
| Donkin, Chesterfield .. ..          | Donkin Company, Ltd. (The Bryan), Chesterfield                               |
| Dosorece, Birmingham .. ..          | Dekore Smelting & Refining Co., Ltd., 174, Corporation St., Birmingham       |
| Douglas, Kirkcaldy .. ..            | Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.                    |
| Doxford, Sunderland .. ..           | Doxford William, & Sons, Ltd., Sunderland                                    |
| Drawbench, Birmingham .. ..         | Bayliss, William, Ltd., Sheepcote St., Birmingham                            |
| Bredger, Port Glasgow .. ..         | Ferguson Brothers (Port-Glasgow), Ltd., Newark Works, Port-Glasgow [Glasgow] |
| Drill, Halifax .. ..                | Asquith William (1919), Ltd., Park Works, Halifax                            |
| Driving, Stockport .. ..            | Renold Hans, Ltd., Burnage Works, Didsbury, Manchester                       |
| Drolog, Smethwick .. ..             | Smethwick Stamping Co., Bridge St., Smethwick, Staffs.                       |
| Drum, Bradford .. ..                | Drum Engineering Co., Ltd., 28, Humboldt St., Bradford                       |
| Dryolene, Bochurch, London ..       | Bixon's White, Ltd., Albion Wharf, Bow, E.                                   |
| Ductility, Coventry .. ..           | Duggans, Ltd., Henry St., Coventry                                           |
| Dunmore, Racine .. ..               | Wisconsin Electric Co., Racine, Wisconsin, U.S.A.                            |
| Duplex, Hyde .. ..                  | Tinker, Shenton & Co., Ltd., Hyde, near Manchester                           |
| Dyakasn, Wilroad, London ..         | Patent Die-Casting Co., Ltd., 64, Strode Rd., N.W. 10                        |
| Dynamo, Oldham .. ..                | Hall J. P., & Co., Ltd., Oldham                                              |
| Economy, Hazel Grove .. ..          | Wirtless, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport                  |
| Eerit, London .. ..                 | American Lead Pencil Co., 173 & 175, Lower Clapton Rd., N.E.                 |
| Edmeston, Patricroft .. ..          | Edmeston Archibald, & Sons, Ltd., Patricroft, near Manchester                |
| Efficiency, London .. ..            | Leroy F., & Co., 20, Gray St., Commercial Rd., E.                            |
| Electricity, Cent., London ..       | General Electric Co., Ltd., 67, Queen Victoria St., E.C. 4                   |
| Electrodes, Rotherham .. ..         | Electrode Co., of Sheffield, Ltd., WincoBank, Sheffield                      |
| Elevate, Cradley Heath .. ..        | Stringers (Cradley Heath), Ltd., Cradley Heath, Staffs.                      |
| Elevator, Cincinnati .. ..          | National Lathe Co., 15 West Second St., Cincinnati, Ohio.                    |
| Elevator, Haslingden .. ..          | Stott S. S., & Co., Haslingden, near Manchester                              |
| Elliot Company, Cardiff .. ..       | Elliot George, & Co., Ltd., Cardiff                                          |
| Elliot Company, London .. ..        | Elliot George, & Co., Ltd., 16, Great George St., Westminster, S.W.          |
| Ellisons Ltd., Irlams-o'-th'-Height | Ellison W. T., & Co., Irlams-o'-th'-Height, Manchester                       |
| Elsterne, London .. ..              | Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C.                   |
| Flyor, Cadishead .. ..              | Royles Limited, Irlam, near Manchester                                       |
| Emclemild, Ave., London ..          | Meyer Montague L., Ltd., 68-74, Palmerston House, Old Broad St., E.C. 2      |
| Emery, Altrincham .. ..             | Luke & Spencer, Ltd., Canal Eng. Works, Altrincham                           |
| Empireste, Vic., London ..          | Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W. 1                   |
| Empress, Johnstone .. ..            | Clifton & Baird, Ltd., Johnstone, Scotland                                   |
| Endazze, London .. ..               | Dissolved Acetylene Co., Ltd., 268 & 270, South Lambeth Rd., S.W. 8          |
| Endeavour, London .. ..             | Birch John, & Co., Ltd., 2, London Wall Buildings, E.C.                      |
| Enelectio, Westcent, London ..      | English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C. 2              |
| Energy, Hull .. ..                  | Moxed & Knott, Ltd., Burnett Avenue, Hull                                    |
| Energy, Motherwell .. ..            | Chambers, Scott & Co., Ltd., Motherwell                                      |
| Engine, Ave., London .. ..          | Marshall, Sons & Co., Ltd., 3, London Wall Buildings, London Wall, E.C. 2    |
| Engine, Hitchin .. ..               | Spencer W. H., & Co., Hitchin, Herts                                         |
| Engine, Leeds .. ..                 | Hunslet Engine Co., Ltd., Leeds                                              |
| Engine, Sheffield .. ..             | Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield                 |
| Engineering, Westrand, London ..    | "Engineerinz." Ltd., 35 & 36, Bedford St., Strand, W.C.                      |
| Engineers, Liverpool .. ..          | Wilson, John H., & Co., Dock Road, Birkenhead                                |
| Enorbalber, London .. ..            | Northern Ball-Bearings, Ltd., 115, Great Portland St., W. 1                  |

| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                           |
|--------------------------------------|---------------------------------------------------------------------------|
| Ensulim, London .. ..                | Marine & Locomotive Superheaters, Ltd., 28, Victoria St., S.W.            |
| Enterprise, Birkenhead .. ..         | Dickie, Geo., & Sons, Chester St., Birkenhead                             |
| E.O.A., Birmingham .. ..             | Electric & Ordnance Accessories Co., Ltd., Aston, Birmingham              |
| Epa, London .. ..                    | Alexander E. P., & Son, 306, High Holborn, W.C.                           |
| Epistolar, Vic., London .. ..        | Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.                         |
| Equestrian, London .. ..             | Bradley Pulveriser Co., 37, Walbrook, E.C.                                |
| Ericsson, Fleet, London .. ..        | British L.M. Ericsson Mfg. Co., Ltd., 5, Chancery Lane, W.C. 2            |
| Escapable, Cent, London .. ..        | Vickers-Petters, Ltd., 73, Queen Victoria St., E.C. 4                     |
| Eswyso, Sowest, London .. ..         | Escher, Wyss & Co., 109, Victoria St., S.W.                               |
| Etna, Leith .. ..                    | Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh                      |
| Enreka, Birmingham .. ..             | Wright John, & Co., Essex Works, Aston, Birmingham                        |
| Evans, Wolverhampton .. ..           | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton                 |
| Evaporate, Pollokshaws .. ..         | Dalglish A. & W., West of Scotland Boiler Wks., Pollokshaws, Glasgow      |
| Everite, Manchester .. ..            | British Everite & Asbestillite Works, Ltd., 29, Peter St., Manchester     |
| Everything, Birmingham .. ..         | Mountford Fredk., Ltd., Fremo Works, Lifford, Birmingham                  |
| Everything, Manchester .. ..         | Kenyon, Alexander, & Co., Victoria Bridge, Manchester                     |
| Exactitude, Birmingham .. ..         | Wolsley Motors, Ltd., Adderley Park, Birmingham                           |
| Excavator, Leeds .. ..               | Whitakers (Engineers), Ltd., Horsforth, Leeds                             |
| Excavator, Leicester .. ..           | Whitaker D., 1, Union St., Leicester                                      |
| Excello, Hamilton .. ..              | Baird Archibald, & Son, Ltd., Clyde Steel & Engineering Works, [Hamilton] |
| Exhaust, Romiley .. ..               | Davies & Metcalf, Ltd., Romiley, Manchester                               |
| Expansion, Glasgow .. ..             | Glasgow Railway Engineering Co., Ltd., Govan, Glasgow                     |
| Expedient, Birmingham .. ..          | Nathan H. L., 16, Regent Place, Birmingham                                |
| Explanatus, London .. ..             | Griffin Charles & Co., Ltd., Exeter St., Strand, W.C.                     |
| Explomerge, Wesdo, London .. ..      | Explosives Trades, Ltd., 6, Cavendish Square, W. 1                        |
| Extrusion, Birmingham .. ..          | Delta Metal Co., Ltd., Dartmouth St., Birmingham                          |
| Fabricants, Phone, London .. ..      | Lash Robert H., Ltd., 23, Tavistock Square, W.C. 1                        |
| Fairley, Birmingham .. ..            | Fairley James, & Sons, Old Mint, Shadwell St., Birmingham                 |
| Falcon, Loughborough .. ..           | Brush Electrical Engineering Co., Ltd., Loughborough, Leicestershire      |
| Farmer Bros., Shifnal .. ..          | Farmer Brothers, Shrewsbury Rd., Shifnal, Salop                           |
| Fawcett, Liverpool .. ..             | Fawcett, Preston & Co., Ltd., Liverpool                                   |
| Fellows, Cradley Heath .. ..         | Fellows Bros., Ltd., Cradley Heath, Staffs                                |
| Fenspon, Charles, London .. ..       | Spon E. & F. N., Ltd., 57, Haymarket, S.W. 1                              |
| Ferrolst, Vic., London .. ..         | Holst K., & Co., 1, Victoria St., S.W. 1                                  |
| Feviker, Glasgow .. ..               | Vickers F. E., 33 & 35, Robertson St., Glasgow                            |
| Fibre, Farnworth, Bolton .. ..       | Farnworth Engineering Co., Hall Lane, Moses Gate, Bolton                  |
| Fibroccem, Erith, Kent .. ..         | British Fibroccem Works, Erith, Kent                                      |
| File Forge, Kirkcaldy .. ..          | File Forge Co., Ltd., Kirkcaldy, Scotland                                 |
| Figge-Haarlem .. ..                  | Figge Ltd., Haarlem, Holland                                              |
| Findlay, Motherwell .. ..            | Findlay Alex., & Co., Ltd., Motherwell, near Glasgow                      |
| Finis, Glasgow .. ..                 | Oxy-Acetylene Welding Co., Ltd., 189, Finnieston St., Glasgow             |
| Firmo, Glasgow .. ..                 | Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow                  |
| Firosis, London .. ..                | Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.                   |
| Firth, Sheffield .. ..               | Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield                       |
| Flamma, London .. ..                 | Acetylene Corporation, Ltd., 49, Victoria St., S.W.                       |
| Flashpoint, Glasgow .. ..            | British Oil Products Co., Ltd., Townmill Rd., Dennistoun, Glasgow         |
| Flux, Blackpool .. ..                | Fluxio Welding Co., Ltd., Blomfield Rd., Blackpool                        |
| Forge, Darlington .. ..              | Darlington Forge Co., Ltd., Albert Hill, Darlington                       |
| Forge, Dumbarton .. ..               | Dennystown Forge Co., Dumbarton                                           |
| Forge, Kirkstall .. ..               | Kirkstall Forge Co., Ltd., Leeds                                          |
| Forgings, Glasgow .. ..              | Garsherrle Engineering & Forge Co., 50, Wellington St., Glasgow           |
| Forward, Sheffield .. ..             | Ward Thos. W., Ltd., Albion Works, Sheffield                              |
| Foster, Instrument, Letchworth .. .. | Foster Instrument Co., Letchworth, Herts.                                 |
| Fosters, Wednesbury .. ..            | Foster Brothers, Ltd., Wednesbury                                         |

| TELEGRAPHIC ADDRESS.                  | NAME AND ADDRESS OF ADVERTISER.                                             |
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| Foundry, Bolton .. ..                 | Entwistle & Cass, Ltd., Bolton                                              |
| Foundry, Bradford .. ..               | Bever, Doring & Co., Ltd., Bowling Ironworks, Bradford                      |
| Foundry, Manchester .. ..             | Wallwork Henry, & Co., Ltd., Manchester                                     |
| Foundry, Walsall .. ..                | Pieck Foundry Co., Ltd., Darlaston Rd., Walsall                             |
| Fowler, Leeds .. ..                   | Fowler John, & Co. (Leeds), Ltd., Steam Plough Works, Leeds                 |
| France, Glasgow .. ..                 | France & Morgan, Whitefield Brass Works, Govan, Glasgow                     |
| Fraser, Arbroath .. ..                | Fraser Douglas, & Sons, Ltd., Westburn Foundry, Arbroath                    |
| Fresco, Glasgow .. ..                 | Gas Power & By-Products Co., Ltd., 116, Hope St., Glasgow                   |
| Fribald, London .. ..                 | Baldwin Locomotive Works, The, 34, Victoria St., S.W.                       |
| Friction, Chapel-en-le-Frith .. ..    | Ferodo, Ltd., Sovereign Mills, Chapel-en-le-Frith                           |
| Frigity, Holborn, London .. ..        | West H. J., & Co., Ltd., 72-74, Grays Inn Road, W.C. 1                      |
| Frymetals, Friars, London .. ..       | Fry's Metal Foundry, 25-42, Holland St., Blackfriars, S.E. 1                |
| Fugal, Glasgow .. ..                  | Watson Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow                 |
| Fulflo, Cincinnati .. ..              | Fulflo Pump Co., Cincinnati, Ohio, U.S.A.                                   |
| Fuller Horsey, London .. ..           | Fuller, Horsey, Sons & Cassell, 11, Billiter Square, E.C.                   |
| Fuselage, Glasgow .. ..               | Woodside Engineering Co., Ltd., Possilpark, Glasgow                         |
| Galloway, Manchester .. ..            | Galloways Limited, Manchester                                               |
| Galvanic, Bilston .. ..               | Bradley & Co., Ltd., Bilston                                                |
| Galvanizer, Liverpool .. ..           | Maxwell & Page, 49, Sefton St., Liverpool                                   |
| Gandah, Glasgow .. ..                 | Harvey G. & A., Ltd., Govan, Glasgow                                        |
| Garrett, Leiston .. ..                | Garrett R., & Sons, Ltd., Leiston Works, Suffolk                            |
| Garrington, Darlaston .. ..           | Garrington John, & Sons, Ltd., The Green, Darlaston, Staffs.                |
| Gas, Leeds .. ..                      | Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds                    |
| Gaseous, London .. ..                 | Dowson & Mason Gas Plant Co., Ltd., 39, Victoria St., S.W.                  |
| Gasholder, Stockton-on-Tees .. ..     | Ashmore, Benson, Pease & Co., Ltd., Stockton-on-tees                        |
| Gasify, Levenshulme .. ..             | Dowson & Mason Gas Plant Co., Ltd., Levenshulme, Manchester                 |
| Gasupreme, London .. ..               | British Commercial Gas Association, 47, Victoria St., S.W.                  |
| Gastoves, Warrington .. ..            | Richmond Gas Stove & Motor Co., Ltd., Academy St., Warrington               |
| Gearing, Huddersfield .. ..           | Brown David, & Sons (Huddersfield), Ltd., Park Works, Lockwood Huddersfield |
| Gears, Gateshead .. ..                | Reay Gearworks, Ltd., Gateshead-on-Tyne                                     |
| Gears, Halifax .. ..                  | Greenwood's Standard Gear Cutting Co., Ltd., New Bond St., Halifax          |
| Gebbsulzer, London .. ..              | Sulzer Brothers, 31, Bedford Square, W.C. 1                                 |
| Geologic, London .. ..                | King's Patent Agency, Ltd., 765, Queen Victoria St., E.C. 4                 |
| George Hatch, Cannon, London .. ..    | Hatch George, Ltd., Queenhithe, E.C. 4                                      |
| Gerrinated, Westdo, London .. ..      | Gerrard & Co., Ltd., 15-19, Titchfield St., W. 1                            |
| Gibbins, Birmingham .. ..             | Gibbins, R. C., & Co., Berkeley St., Birmingham                             |
| Gibbons, Lower-Gornal .. ..           | Gibbons Bros., Ltd., Dibdale Works, Dudley, Worc.                           |
| Gibbons, Wolverhampton .. ..          | Gibbons James, St. John's Works, Wolverhampton                              |
| Gilman, Rotherwood, Birmingham .. ..  | Gilman Frank, 9, Westwood Rd., Birmingham                                   |
| Gilson, Pontardawe .. ..              | Gilbertson W., & Co., Ltd., Pontardawe, near Swansea                        |
| Gilder, Motherwell .. ..              | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell                |
| Glweir, Glasgow .. ..                 | Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow                         |
| Glasses, Newton Heath .. ..           | Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester               |
| Glenfield, Kilmarnock .. ..           | Glenfield & Kennedy, Ltd., Kilmarnock, N.B.                                 |
| Globe, Derby .. ..                    | Roe & Harrison, Ltd., Derby                                                 |
| Gloquill, Westcent, London .. ..      | Mable, Todd, & Co., Ltd., 79-80, High Holborn, W.C. 1                       |
| Goodwin, Ironfounder, Leicester .. .. | Goodwin, Barsby, & Co., Leicester                                           |
| Gothic, Norwich .. ..                 | Laurence, Scott, & Co., Ltd., Norwich                                       |
| Grace, Thrapston .. ..                | Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston                        |
| Grafton, Bedford .. ..                | Grafton & Co., Bedford                                                      |
| Graftonian, London .. ..              | Grafton & Co., 120, Cannon St., E.C.                                        |
| Gramercy, London .. ..                | Le Bas Edward, & Co., Dock House, Billiter St., E.C.                        |
| Grant, Kilmarnock .. ..               | Grant, Ritchie & Co., Ltd., Kilmarnock                                      |

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                   |
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| Graysilver, Silver, London ..     | India Rubber, Gutta Percha, & Telegraph Works Co., Ltd., Silver-  |
| Grice, Birmingham ..              | Grice, Grice & Son, Ltd., Sheepcote St., Birmingham [town, E.     |
| Grieve, Motherwell ..             | Grieve John, & Co., Motherwell, Scotland                          |
| Grispen, New York ..              | Griscom-Russell Co., 95, West St., New York, U.S.A.               |
| Guest, Rotherham ..               | Guest & Chimes, Rotherham                                         |
| Gunmetal, Glasgow ..              | Pegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow            |
| Gunther, Oldham ..                | Gunther W., & Sons, Central Works, Oldham                         |
| Gutta-perch, Toronto ..           | Gutta Percha & Rubber, Ltd., Toronto, Canada                      |
| Guttashea, Ave., London ..        | New Gutta Percha Co., Ltd., Dashwood House, New Broad St., E.C. 2 |
| Gwynne, London ..                 | Gwynnes Ltd., Hammersmith Ironworks, W.                           |
| Hadfield, Sheffield ..            | Hadfields Limited, Hecla Works, Sheffield                         |
| Haigh, Oldham ..                  | Haighs (Oldham) Ltd., Globe Ironworks, Plane St., Oldham          |
| Halden, Manchester ..             | Halden J., & Co., Ltd., 8, Albert Square, Manchester              |
| Halefo, Tipton ..                 | Hale Thos. L., Ltd., Dudley Part, Tipton, Staffs.                 |
| Hall, Engineers, Peterborough ..  | Hall J. P., & Sons, Ltd., Peterborough                            |
| Hallwell, Birmingham ..           | Howes & Burley, Ltd., Holloway Head, Birmingham                   |
| Hallford, Dartford ..             | Hall J. & E., Ltd., Dartford, Kent                                |
| Hallford, London ..               | Hall J. & E., Ltd., 10, St. Swithin's Lane, E.C.                  |
| Harris, Birmingham ..             | Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham       |
| Hart, Blackburn ..                | Hart Thomas, Ltd., Blackburn, England                             |
| Hartnell, Leeds ..                | Hartnell, Wilson & Co., Ltd., Volt Works, Kirkstall Rd., Leeds    |
| Hathorn, Leeds ..                 | Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds                    |
| Hayes, Stony Stratford ..         | Hayes Edward, Watling Works, Stony Stratford, Wolverton           |
| Heap, Ltd., Ashton-under-Lyne ..  | Heap Jos. & Co., Ltd., Ashton-under-Lyne                          |
| Heenan, Manchester ..             | Heenan & Froude, Ltd., 4, Chapel Walks, Manchester                |
| Heenan, Worcester ..              | Heenan & Froude, Ltd., Worcester Engineering Works, Worcester     |
| Helical, Cannon, London ..        | Citroën Gear Co., Ltd., 27, Queen Victoria St., E.C. 4            |
| Henry Crowther, Cleckheaton ..    | Crowther Henry, & Sons, Ltd., Cleckheaton, Yorkshire              |
| Herold, Reddish ..                | Rowland B. R., Ltd., & Co., Climax Works, Reddish, nr. Manchester |
| Hexagon, Leeds ..                 | Kirby Banks Screw Co., Ltd., Leeds                                |
| Hick, Bolton ..                   | Hick, Hargreaves & Co., Ltd., Soho Works, Bolton                  |
| Hides, Manchester ..              | Cook E. J., Trinity Leather Works, Blackfriars, Manchester        |
| Higbro, Birmingham ..             | Higgs Bros., Summer Hill St., Birmingham                          |
| Highgate, Shettleston ..          | Pollock, Macnab & Highgate, Shettleston, Glasgow                  |
| Hindley, Bourton-Dorset ..        | Hindley E. S., & Sons, Bourton, Dorset                            |
| Hingley, Dudley ..                | Hingley N., & Sons, Ltd., Netherton Iron Works, Dudley            |
| Hirsts 781, Oldham ..             | Hirst Bros., & Co., Ltd., 57, Roscoe St., Oldham, Lancs.          |
| Hobnalls, London ..               | Hobdell, Way & Co., Ltd., St. John's House, 124-5, Minorcs, E.    |
| Hoffmann, Chelmsford ..           | Hoffmann Manufacturing Co., Ltd., Chelmsford                      |
| Holting, Glasgow ..               | Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow        |
| Holcroft's, Bilston ..            | Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire  |
| Holding, Sheffield ..             | Holding John, & Co., Ltd., Sheffield                              |
| Hollingdrake, Stockport ..        | Hollingdrake H., & Son, Ltd., Princes St., Stockport              |
| Holmes, Newcastle-on-Tyne ..      | Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne             |
| Holt, Willets, Cradley Heath ..   | Holt & Willets, Lion Works, Cradley Heath                         |
| Hopkinson, Huddersfield ..        | Hopkinson J., & Co., Ltd., Huddersfield                           |
| Hordern, Vesey St., Birmingham .. | Hordern & Mason, St. Mary's, Birmingham                           |
| Hornsby, Grantham ..              | Ruston & Hornsby, Ltd., Spittlegate Iron Works, Grantham          |
| Horology, Birmingham ..           | Cooke James, & Son, 8 and 9, Wrentham Street, Birmingham          |
| Horseley, Tipton ..               | Horseley Bridge & Engineering Co., Ltd., Tipton, Staffordshire    |
| Horsepower, Cannon, London ..     | Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C. |
| Horton, Darlaston ..              | Horton & Son, Ltd., Alma Works, Darlaston                         |
| Howden, Glasgow ..                | Howden James, & Co., Scotland St., Glasgow                        |
| Howell, Sheffield ..              | Howell & Co., Ltd., Brook Steel Works, Sheffield                  |

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| Howie, Hurlford .. ..                | Howie J., & R., Ltd., Hurlford, Kilmarnock                                                 |
| Howl, Tipton .. ..                   | Lee, Howl, & Co., Ltd., Tipton, Staffs.                                                    |
| Hudson, Coatbridge .. ..             | Hudson Thomas, Ltd., Sheepfold Works, Coatbridge, N.B.                                     |
| Hukenn, Glasgow .. ..                | Kennedy's (Carntyne), Ltd., Shettleston, Glasgow                                           |
| Humidity, Bradford .. ..             | Davenport Engineering Co., Ltd., Harris St., Bradford                                      |
| Humphidge, Cainscross .. ..          | Dudbridge Iron Works, Ltd., Dudbridge, near Stroud                                         |
| Huwood, Fen., London .. ..           | Wood H., & Co., Ltd., 65, Fenchurch St., E.C.                                              |
| Hydraulic, Birmingham .. ..          | Birmingham Aluminium Castings (1903) Co., Ltd., Birmingham                                 |
| Hydraulic, Leeds .. ..               | Middleton Robt., Sheepscar Foundry, Leeds                                                  |
| Hydraulic, Liverpool .. ..           | Robertson Thos. R., 7, Hurst St., Liverpool                                                |
| Hydrogen, Glasgow .. ..              | Scott David, Polmadie, Glasgow                                                             |
| Hydrological, Westrand, London .. .. | Warner Robert, & Co. (Engineers), Ltd., 14-16, Cockspur St., S.W. 1                        |
| Hydromel, Hull .. ..                 | Mead Henry, & Co., Ltd., Princes Dock Chambers, Hull                                       |
| Hydrostatic, Phone, London .. ..     | East Ferry Road Engineering Works Co., Ltd., Millwall, E.                                  |
| Hydroturbo, Wolverhampton .. ..      | Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Eng.                              |
| Hygearlim, Phone, London .. ..       | Hydraulic Gears, Ltd., Beaver Lane, Hammersmith, W. 6                                      |
| Hyroddim, Phone, London .. ..        | Hyatt, Ltd., 24, Devonshire St., Theobalds Rd., W.C. 1                                     |
| Igranic, London .. ..                | Igranic Electric Co., Ltd., 147, Queen Victoria St., E.C.                                  |
| Impression, Newcastle-on-Tyne .. ..  | United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne                       |
| Incombust, Sewart, London .. ..      | Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W. 1                                  |
| Incomult, London .. ..               | International Multigraph Co., 59, Holborn Viaduct, E.C. 1                                  |
| Incorrupt, Cent., London .. ..       | Cape Asbestos Co., Ltd., 23, King St., E.C. 2                                              |
| Indicator, Glasgow .. ..             | Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St.,                         |
| Indicator, Manchester .. ..          | Kirk Wheatley, Price & Co., Albert Square, Manchester [Glasgow]                            |
| Indices, London .. ..                | Kirk Wheatley, Price & Co., 46, Watling St., E.C.                                          |
| Influx, Manchester .. ..             | Holden & Brook, Ltd., West Gorton, Manchester                                              |
| Ingenuity, Glasgow .. ..             | Bromell Patents Co., Ltd., 62, Robertson St., Glasgow                                      |
| Ingersoll, London .. ..              | Ingersoll-Rand Co., 165, Queen Victoria Street, E.C.                                       |
| Ingot, Briton Ferry .. ..            | Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire                                 |
| Ingot, Wishaw .. ..                  | Glasgow Iron & Steel Co., Ltd., Wishaw Iron & Steel Works, Wishaw                          |
| Ingot, Newcastle-on-Tyne .. ..       | Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne                                    |
| Inspect, London .. ..                | Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., S.W.                               |
| Instrument, Cambridge .. ..          | Cambridge & Paul Instrument Co., Ltd., Cambridge                                           |
| Insulator, Prescott .. ..            | British Insulated & Helsby Cables, Ltd., Prescott, Lancashire                              |
| Integral, Holborn, London .. ..      | Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 329, High<br>Holborn, W.C. 1 |
| Intensifier, London .. ..            | Middleton Robt., 22, Martin's Lane, Cannon St., E.C.                                       |
| Intersection, London .. ..           | Piggott Thos., & Co., Ltd., 63, Queen Victoria St., E.C.                                   |
| Inventions, Eastbourne .. ..         | Howard Pneumatic Engineering Co., Ltd., Eastbourne                                         |
| Iron, Manchester .. ..               | Hall & Pickles, Ltd., Port St., Manchester                                                 |
| Iron, Wednesbury .. ..               | Wesson W., & Co., Ltd., Moxley, Wednesbury                                                 |
| Ironclad, Manchester .. ..           | Lancashire Dynamo & Motor Co., Ltd., Trafford Park, Manchester                             |
| Ironheads, London .. ..              | Notcutt, Walter P., Ltd., 8, White St., Moorfields, E.C.                                   |
| Ironware, Charles, London .. ..      | Millwall Engineering Co., Ltd., 21, Pantons St., S.W. 1                                    |
| Ironworks, Butterley .. ..           | Butterley Co., Ltd., Butterley                                                             |
| Irony, Bolton .. ..                  | Booth John, & Sons, Hulton Steel Works, Bolton                                             |
| Ixion, Sheffield .. ..               | Heeley Silver Rolling & Wire Mills, Ltd., Sheffield                                        |
| Jackson, Claycross .. ..             | Clay Cross Co., Clay Cross, near Chesterfield                                              |
| Jacksons, Manchester .. ..           | Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester                              |
| Jacobchuck, Hartford .. ..           | Jacobs Manufacturing Co., Hartford, Conn., U.S.A.                                          |
| James Keith, London .. ..            | Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.                             |
| Jamsler, Schaffhouse .. ..           | Amsler Alfred J., & Co., Schaffhouse, Switzerland                                          |
| Jardine, Nottingham .. ..            | Jardine John, Ltd., Deering St., Nottingham                                                |

| TELEGRAPHIC ADDRESS.         | NAME AND ADDRESS OF ADVERTISER.                                     |
|------------------------------|---------------------------------------------------------------------|
| Jeffrey, Columbus .. ..      | Jeffrey Manufacturing Co., 910, North Fourth St., Columbus, Ohio.   |
| Jenkins, Retford .. ..       | Jenkins W. J., & Co., Ltd., Beehive Works, Retford, Notts. [U.S.A.] |
| Jenkins, Rotherham .. ..     | Jenkins R., & Co., Ltd., Rotherham, Eng.                            |
| Jenorten, Phone, London ..   | Böving & Co., Ltd., 56, Kingsway, W.C. 2                            |
| Joining, Adrossan .. ..      | Metallic Manufacturing Co., Ltd., Adrossan                          |
| Juno, Charlton, London ..    | Johnson & Phillips, Ltd., Charlton, S.E. 7                          |
| Kalker, Coventry .. ..       | Kalker E., & Co., Much Park St., Coventry                           |
| Karriakar, Huddersfield ..   | Clayton & Co. (Huddersfield), Ltd., Karrier Works, Huddersfield     |
| Kearns, Altrincham .. ..     | Kearns H. W., & Co., Ltd., Broadheath, near Manchester              |
| Keay, Birmingham .. ..       | Keay E. C. & J., Ltd., Corporation St., Birmingham                  |
| Kelvin, Estrand, London ..   | Armstrongs & Main, Ltd., Australia House, Strand, W.C.              |
| Kentobin, Westcent, London   | Kent George, Ltd., 199, High Holborn, W.C. 1                        |
| Kenyon, Dukinfield .. ..     | Kenyon Wm. & Sons, Ltd., Dukinfield, Manchester                     |
| Keystone, Glasgow .. ..      | Positive Lock Washer Co., 118-122, James Watt St., Glasgow          |
| Khartoum, Cent., London      | United States Rubber Co., Ltd., 47 & 48, Farringdon St., E.C. 4     |
| Kilbowie, London .. ..       | Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E.           |
| King, Glasgow .. ..          | King David, & Sons, Ltd., Possil Park, Glasgow                      |
| Klaredo, Fen., London ..     | Thermofelt, Ltd., 66, Fenchurch St., E.C. 3                         |
| Komerars, Luton .. ..        | Commercial Cars, Ltd., Luton                                        |
| Kwerasspro, London ..        | Culrass Products, Ltd., 39, Victoria St., Westminster, S.W. 1       |
| Laminated, Glasgow .. ..     | Hendry James, Laminated Leather Works, Bridgeton, Glasgow           |
| Land, Grantham .. ..         | Grantham Boiler & Crank Co., Ltd., Grantham                         |
| Lang, Johnstone .. ..        | Lang John, & Sons, Johnstone, N.B.                                  |
| Lapweld, Glasgow .. ..       | Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow                    |
| Lathe, Coventry .. ..        | Herbert Alfred, Ltd., Coventry                                      |
| Lathe, Halifax .. ..         | Smith, Barker & Willson, Ltd., Halifax                              |
| Lathe, Shipley .. ..         | Barker, Spink, Leese & Co., Rosse Works, Shipley, Yorks             |
| Lathes, Birmingham .. ..     | Taylor Charles (Birmingham), Ltd., Bartholomew Square, Birmingham   |
| Lathes, Felling .. ..        | Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne (ham            |
| Lathes, Hyde .. ..           | Macnab John, Mary St., Hyde                                         |
| Lathes, Stoughton .. ..      | Drummond Brothers, Ltd., Engel Works, near Guildford                |
| Leathers Company, Altrincham | Leathers Company (Altrincham), Limited, Altrincham, Manchester      |
| Lees, Hollinwood .. ..       | Lees T. & R., Ltd., Hollinwood, near Manchester                     |
| Lenos, Millwall .. ..        | Brown, Lenox & Co. (London), Ltd., Poplar, E.                       |
| Lesorus, Hammer, London      | Rosser & Russell                                                    |
| Lidgerwood, London .. ..     | Lidgerwood Mfg. Co., Friars House, New Broad St., E.C.              |
| Lifter, Coventry .. ..       | Bretts Patent Lifter Co., Ltd., Coventry                            |
| Lifting, Leicester .. ..     | Taylor & Hubbard, Leicester                                         |
| Lifting, Stanningley .. ..   | Butler Samuel, & Co., Ltd., Stanningley, near Leeds                 |
| Lignum, Manchester .. ..     | Southern James W., & Son, Ltd., Store St., Manchester               |
| Lilleshall, Oakengates ..    | Lilleshall Co., Ltd., Oakengates, Shropshire                        |
| Linking, Battsquare, London  | Hunt Thomas, & Sons, Bridge Rd. West, Battersea, S.W. 11            |
| Lioncelle, London .. ..      | Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E.      |
| Lipogram, London .. ..       | Lipcombe Fredk., & Co., 49, Queen Victoria St., E.C. 4              |
| Lloyds, Birmingham .. ..     | Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham             |
| Lobnitz, Renfrew .. ..       | Lobnitz & Co., Ltd., Renfrew, Scotland                              |
| Lockean, London .. ..        | Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.                     |
| Lockfast, London .. ..       | Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C.         |
| Lockstone-Smith, London ..   | Farmer & Co., 150, St. John St., Clerkenwell, E.C. 1                |
| Loco, Bristol .. ..          | Avonside Engine Co., Ltd., Bristol                                  |
| Loco, Gorton .. ..           | Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester              |
| Loco, Leeds .. ..            | Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds                |

| TELEGRAPHIC ADDRESS.        | NAME AND ADDRESS OF ADVERTISER.                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------|
| Locomotive, Newcastle ..    | Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne                                   |
| Locosuper, Phone, London .. | Superheater Corporation, Ltd., 14, New Burlington St., W. 1                               |
| Lodge, Rugby ..             | Lodge Plugs, Ltd., Rugby                                                                  |
| Logie, Birmingham ..        | McGowan, Wild & Co., Hurst St., Birmingham                                                |
| Longmans, London ..         | Longmans, Green & Co., 39, Paternoster Row, E.C.                                          |
| Lowtemcar, Phone, London .. | Low Temperature Carbonisation, Ltd., 14 & 16, Cockspur St., S.W. 1                        |
| Lunken, London ..           | Lunken Company, Ltd., 35, Great Dover St., S.E.                                           |
| Lustroso, Phone, London ..  | Graphite Products, Ltd., 218-220, Queen's Rd., Battersea, S.W.                            |
| Lyncean, London ..          | Contraflo Condenser & Kinetic Air Pump Co., Ltd., 3, Central Buildings, Westminster, S.W. |
| Lysaght, Bristol ..         | Lysaght John, Ltd., St. Vincent Ironworks, Bristol                                        |
| Machinery, Birmingham ..    | Hands John, & Sons, Ltd., Cardigan Works, Birmingham                                      |
| Machinery, Dursley ..       | Lister R. A., & Co., Ltd., Dursley, Glos.                                                 |
| McKechnie, Birmingham ..    | McKechnie Brothers, Ltd., Rotton Park St., Birmingham                                     |
| Macksig, London ..          | McKenzie & Holland, Ltd., 53, Victoria St., S.W.                                          |
| MacLellan, Glasgow ..       | MacLellan P. & W., Ltd., Clutha Works, Glasgow                                            |
| MacLellan, London ..        | MacLellan P. & W., Ltd., 108A, Cannon St., E.C.                                           |
| Macmarsh, New York ..       | McClintic-Marshall Products Co., 50, Church St., New York, U.S.A.                         |
| Macnab, Woodley ..          | Pollock & Macnab, Ltd., Bredbury, Stockport                                               |
| Macnell, Glasgow ..         | McNell C., Ltd., Kinning Park Hydraulic Forge, Glasgow                                    |
| Macnole, Glasgow ..         | Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow                          |
| McCord, Detroit ..          | McCord Manufacturing Co., Inc., Detroit, Michigan, U.S.A.                                 |
| McRobie, Glasgow ..         | McRobie John, & Sons, 94, Elliott St., Glasgow                                            |
| Magnet, Manchester ..       | Electromotors, Ltd., Openshaw, Manchester                                                 |
| Magnoller, London ..        | Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.     |
| Malden, Hyde ..             | Malden & Co., Ltd., Hyde, Cheshire                                                        |
| Managable, London ..        | Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W.                           |
| Manloves, London ..         | Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.                                |
| Manloves, Nottingham ..     | Manlove, Allott & Co., Ltd., Nottingham                                                   |
| Manning, Leeds ..           | Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds                                    |
| Manometer, Altrincham ..    | Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester                                     |
| Markt, Smith, London ..     | Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., E.C. 1                             |
| Marr, Sunderland ..         | Sunderland Forge & Eng. Co., Ltd., Pallion, Sunderland                                    |
| Marsden, Leeds ..           | Marsden H. R., Ltd., Soho Foundry, Leeds                                                  |
| Marsbills, Gainsborough ..  | Marshall, Sons & Co., Ltd., Gainsborough                                                  |
| Masonica, Boston, U.S.A. .. | Mason Regulator Co., Boston, Mass., U.S.A.                                                |
| Massey, Openshaw ..         | Massey B. & S., Ltd., Openshaw, Manchester                                                |
| Maudslay, Coventry ..       | Maudslay Motor Co., Ltd., Parkside, Coventry                                              |
| Meldrum, Altrincham ..      | Meldrums Ltd., Timperley, near Manchester                                                 |
| Mellis, London ..           | Kerr, Stuart & Co., Ltd., 5, Broad St. Place, E.C.                                        |
| Melloid, Yoker ..           | Bull's Metal and Melloid Co., Ltd., Yoker, near Glasgow                                   |
| Merryweather, London ..     | Merryweather & Sons, Ltd., 63, Long Acre, W.C.                                            |
| Mesmeric, London ..         | Firth Thos., & Sons, Ltd., 8, The Sanctuary, Westminster, S.W.                            |
| Metallic, Bradford ..       | United States Metallic Packing Co., Ltd., Soho Works, Bradford                            |
| Metallic, Glasgow ..        | Murray, McVinnie & Co., Ltd., Mavisbank Quay, Glasgow                                     |
| Metallicus, Manchester ..   | Johnson Richard, Clapham & Morris, Ltd., Lever St., Manchester                            |
| Metalose, Wood, London ..   | Interlock Metal Hose Co., River Park Rd., Wood Green, N.                                  |
| Metals, West Bromwich ..    | Adams & Benson, Ltd., Albion, West Bromwich                                               |
| Meter, Glasgow ..           | Kelvin, Bottomley & Baird, Ltd., 16-20, Cambridge St., Glasgow                            |
| Method, Birmingham ..       | Player W. & J., Birmingham                                                                |
| Metrovick, Manchester ..    | Metropolitan-Vickers Electrical Co., Ltd., Trafford Park, Manchester                      |

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                       |
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| Mexprodex, Ave., London .. ..     | Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Circus, E.C.     |
| Mikron, Bienne .. ..              | Mikron, Ltd., Madretsch, Bienne, Switzerland                          |
| Mildsteel, Hay Mills .. ..        | Mild Steel Castings, Ltd., Hay Mills, Birmingham                      |
| Mirco, Birmingham .. ..           | Midland Rubber Co., Ltd., Ryland St., Birmingham                      |
| Mirissimus, Cent., London .. ..   | Miris Steel Co., Ltd., King's House, King St., E.C. 2                 |
| Mirrees, Glasgow .. ..            | Mirrees Watson Co., Ltd., Scotland St., Glasgow                       |
| Milton, Birmingham .. ..          | Hunt & Milton, Ltd., Oozells St., North, Birmingham                   |
| Moderate, Glasgow .. ..           | Semple Robert, 179, West George St., Glasgow                          |
| Modernize, Manchester .. ..       | Clyne Engineering Co., Ltd., 94, Market St., Manchester               |
| Moorlands Eng. Co., Ltd., Leek .. | Moorlands Engineering Co., Ltd., Leek, Staffs.                        |
| Mosgear, Birmingham .. ..         | Moss Gear Co., Ltd., Aston Manor, Birmingham                          |
| Motoburk, Vic., London .. ..      | Burckhardt Engineering Works, 26, Victoria St., S.W. 1                |
| Motor, Sheffield .. ..            | Davy Brothers, Ltd., Sheffield                                        |
| Motral, Bedford .. ..             | Motor Rail & Tram Car Co., Simplex Works, Bedford                     |
| Multigraph, West Bromwich .. ..   | Kenrick & Jefferson, Ltd., Multigraph Works, West Bromwich            |
| Multitube, Annan .. ..            | Cochran & Co., Annan, Ltd., Annan, N.B.                               |
| Mumford, Colchester .. ..         | Mumford A. G., Ltd., Culver St. Engineering Works, Colchester         |
| Muntz, Westbromwich .. ..         | Muntz P. H., & Co., Ltd., Alexandra Works, West Bromwich              |
| Munzing, Sedist, London .. ..     | Munzing H., Ltd., 90-96, Union St., S.E. 1                            |
| Musgrave Limited, Belfast .. ..   | Musgrave & Co., Ltd., Belfast                                         |
| Myren, Kristiania .. ..           | Jensen J. & A., & Dahl, Kristiania, Norway                            |
| National, Ashton-under-Lyne .. .. | National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester          |
| National, Manchester .. ..        | National Roller & General Insurance Co., Ltd., St. Mary's Parsonage,  |
| Nautical, Glasgow .. ..           | Mechans Limited, Scotstoun Iron Works, Glasgow [Manchester            |
| Negretti, London .. ..            | Negretti & Zambra, 38, Holborn Viaduct, E.C. [Motherwell              |
| Nelson, Motherwell .. ..          | Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works,       |
| Newalls, Newcastle-on-Tyne .. ..  | Newalls Insulation Co., Ltd., Mosley St., Newcastle-on-Tyne           |
| Newbold, London .. ..             | Newbold Walter & Co., Ltd., 22, Martin Lane, Cannon St., E.C. 4       |
| Newcomen, Birmingham .. ..        | Savery T. A., & Co., Ltd., Newcomen Works, Birmingham                 |
| News, Wallsend .. ..              | North-Eastern Marine Engineering Co., Ltd., Wallsend-on-Tyne          |
| Newton, Sheffield .. ..           | Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield   |
| Nichols, Engineers, Gateshead ..  | Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), North-     |
| Nilesco, New York .. ..           | Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A.                |
| Niliacus, London .. ..            | Niles-Bement-Pond Co., 23 & 25, Victoria St., Westminster, S.W.       |
| Nonacid, Sowest, London .. ..     | British Fire Appliances Co., Ltd., 109, Victoria St., S.W. 1          |
| Norbom .. ..                      | Norbom Engineering Co., Fifth & Ellis Avenue, Darby Pa., U.S.A.       |
| Nucleolus, Phone, London .. ..    | Colley Engineering & Machinery Co., Clun House, 17, Surrey St.,       |
|                                   | [Strand, W.C. 2                                                       |
| Oakey, London .. ..               | Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.B.                |
| Obispailla, N.Y., U.S.A. .. ..    | Wheeler Condenser & Engineering Co., Carteret, N.J., U.S.A.           |
| Ocean, Sheffield .. ..            | Standard Piston Ring & Engineering Co., Ltd., Premier Works, Don      |
|                                   | Rd., Sheffield                                                        |
| Oceanilla, Westrand, London .. .. | Stone J., & Co., Ltd., Oceanic House, 1A, Cockspur St., S.W. 1        |
| Octagon, Birmingham .. ..         | British Rolling Mills, Ltd., Cleveland St., Birmingham                |
| Odormerbel, Parl., London .. ..   | Ormerod John, & Sons, Ltd., 38 & 34, Parliament St., S.W. 1           |
| Oldens, Birmingham .. ..          | Youngs, Ryland St. Works, Birmingham                                  |
| Olhenwelco, London .. ..          | Wells (Henry) Oil Co., 11, Haymarket S.W. 1                           |
| One Hundred Ruggles St., Rox-     | Boston Scale & Machine Co., Boston, Mass., U.S.A.                     |
| bury, Mass.                       |                                                                       |
| Oolcomachi, Vic., London .. ..    | Coats Machine Tool Company, Ltd., 14, Palmer St., Westminster, S.W. 2 |
| Opodeldoc, Estrand, London .. ..  | Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.    |
| Orders, Cannon, London .. ..      | Electromotors Ltd., 49, Queen Victoria St., E.C. 4                    |
| Ordinance, Coventry .. ..         | Coventry Ordnance Works, Ltd., Coventry                               |



| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                                              |
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| Ordinance, Keighley .. ..         | Dickinson Machine Tool Co., Ltd., Devonshire Works, Keighley                                 |
| Original, Manchester .. ..        | Cameron John, Ltd., Oldfield Rd., Ironworks, Salford                                         |
| Osborn, Sheffield .. ..           | Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield                                     |
| Otto, Manchester .. ..            | Crossley Bros., Ltd., Openshaw, Manchester                                                   |
| Outfitter, Glasgow .. ..          | Palaelys Ltd., 72-96, Jamaica St., Glasgow                                                   |
| Outil, Oerlikon .. ..             | Swiss Machine Tool Works, Oerlikon, near Zurich, Switzerland                                 |
| Pagefield, Wigan .. ..            | Walker Bros. (Wigan), Ltd., Pagefield Iron Works, Wigan                                      |
| Pare, Coventry .. ..              | Pare, Ltd., Clarence Works, Lockhurst Lane, Coventry                                         |
| Parlim, Birmingham .. ..          | Partridges, Ltd., 143, Northwood St., Birmingham                                             |
| Patterns, Bradford .. ..          | A I Manufacturing Co., Sunbridge Rd., Bradford                                               |
| Paul, Dumbarton .. ..             | Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton                                        |
| Paxman, Colchester .. ..          | Davey, Paxman & Co., Ltd., Standard Works, Colchester                                        |
| Paxman, London .. ..              | Davey, Paxman & Co., Ltd., 78, Queen Victoria St., E.C.                                      |
| Paynes, Southampton .. ..         | Summers & Payne, Ltd., Southampton                                                           |
| Pearson, Dublin .. ..             | Smith & Pearson, Ltd., Newcomen Ironworks, Dublin                                            |
| Peckett, Bristol .. ..            | Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol                                        |
| Pedestal, Glasgow .. ..           | Govan Shuffling & Engineering Co., Ltd., Govan, Glasgow                                      |
| Penetrancy, Holborn, London       | Butcher Henry, 63 & 64, Chancery Lane, W.C. 2                                                |
| Penetration, London .. ..         | Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, E.C.                                |
| Penman, Glasgow .. ..             | Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                                             |
| Penstock, Langley, Worcs.         | Ham, Baker & Co., Ltd., Langley Green, Birmingham                                            |
| Percussion, Bristol .. ..         | Bristol Pneumatic Tools, Ltd., 140, Victoria St., Bristol                                    |
| Persistent, Liverpool .. ..       | Everitt & Co., Ltd., 40, Chapel St., Liverpool                                               |
| Petelobus, Maidstone .. ..        | Tilling-Stevens Motors, Ltd., Maidstone                                                      |
| Phoenix, Paisley .. ..            | Fleming & Ferguson, Ltd., Paisley, near Glasgow                                              |
| Pickering, Wislaw .. ..           | Pickering R. Y., & Co., Ltd., Wislaw, near Glasgow                                           |
| Pickerings, Stockton-on-Tees      | Pickerings, Ltd., Globe Elevator Works, Stockton-on-Tees                                     |
| Picketts, Hove .. ..              | Picketts, Ltd., Mortimer Works, Hove, Sussex                                                 |
| Pickles, Engineers, Hebden Bridge | Pickles, John & Son, Hebden Bridge, Yorks.                                                   |
| Pickwick, Rand, London .. ..      | Chapman & Hall, Ltd., 11, Henrietta St., W.C.                                                |
| Pierclers, Coventry .. ..         | Midland Presswork Co., Far Gosford St., Coventry                                             |
| Pilingdon, Fen., London .. ..     | British Steel Piling Co., Dock House, Billiter St., E.C. 3                                   |
| Pistons, Birmingham .. ..         | St. George's Engineering Co., Brearley St., Birmingham                                       |
| Piston, Sheffield .. ..           | Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield                                          |
| Pistons, Manchester .. ..         | Lancaster & Tonge, Ltd., Pendleton, near Manchester                                          |
| Pistorings, Coventry .. ..        | British Piston Ring Co., Ltd., Holbrook Lane, Coventry                                       |
| Planers, Halifax .. ..            | Redman C., & Sons, Ltd., Kingston, Halifax                                                   |
| Planers, Keighley .. ..           | Ward, Haggas & Smith, Eastwood, Keighley                                                     |
| Planetary, Phone, London          | Popes Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W. 10                                 |
| Plasmo, London .. ..              | Dudgeon F. S., Ltd., 30, Great St. Helens, E.C. 3                                            |
| Platt, Wednesbury .. ..           | Platt Samuel, Ltd., Wednesbury                                                               |
| Plenty, Newbury .. ..             | Plenty & Son, Ltd., Newbury, Berkshire                                                       |
| Plungers, Birmingham .. ..        | Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham                                        |
| Pneumatic, Sowest, London         | Stevens Clement, Pneumatic Engineering Co., Ltd., 28, Spenser St.<br>Buckingham Gate, S.W. 1 |
| Pneumatoid, Vic., London          | Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W.                                 |
| Pneumkin Telev, London            | Michelin Tyre Co., Ltd., 81, Fulham Rd., Chelsea, S.W.                                       |
| Polar, Liverpool .. ..            | Liverpool Refrigerating Co., Ltd., Colonial House, Liverpool                                 |
| Polaris, London .. ..             | Heath & Co., Ltd., New Eltham, S.E. 9                                                        |
| Policy, Led., London .. ..        | London & Lancashire Fire Insurance Co., Ltd., 155, Leadenhall St., [E.C.]                    |
| Pontex, London .. ..              | Pontifex & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C.                           |
| Portend, Ave., London .. ..       | Association of British Driving Chain Manufacturers, Bassishaw House<br>Basinghall St., E.C.  |
| Possil, Glasgow .. ..             | Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow                                        |

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| Potential, Newcastle-on-Tyne .. ..   | Jennings Edward J., West Walls, Newcastle-on-Tyne                                      |
| Pott, Motherwell .. ..               | Pott, Cassells & Williamson, Motherwell, near Glasgow                                  |
| Powersig, Sowest, London .. ..       | McKenzie, Holland, & Westinghouse Power Signal Co., Ltd., 58, Victoria St., S.W.       |
| Powtling, Ave., London .. ..         | Powerite Steam Jointing Co., Ltd., 16 & 17, Devonshire Sq., E.C. 2                     |
| Pratchitt, Engineers, Carlisle .. .. | Pratchitt Brothers, Denton Ironworks, Carlisle                                         |
| Preckson, Coventry .. ..             | Morton & Weaver, Cox St., Coventry                                                     |
| Precooler, Shalford .. ..            | Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, nr. Guildford, Surrey |
| Premier, Sandiacre .. ..             | Premier Gas Engine Co., Ltd., Sandiacre, Nottingham                                    |
| Press, Leeds .. ..                   | Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds                             |
| Presses, Birmingham .. ..            | Purden Charles, Ltd., 262, Corporation St., Birmingham                                 |
| Pressure, Glasgow .. ..              | Cockburn A. & Co., Gateside St., Glasgow                                               |
| Priestman, Hull .. ..                | Priestman Bros., Ltd., Holderness Foundry, Hull                                        |
| Priestman, London .. ..              | Priestman Bros., Ltd., 28, Victoria St., S.W. 1                                        |
| Princeps, Sheffield .. ..            | Princeps & Co., Sheffield                                                              |
| Printed, Glasgow .. ..               | Thomlinson John, Ltd., Stanley Works, Partick, Glasgow                                 |
| Printeries, Cent., London .. ..      | Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C. 2                              |
| Processes, Westcent, London .. ..    | Electro-Metals, Ltd., Imperial Buildings, Kingsway, W.C.                               |
| Proctor, Burnley .. ..               | Proctor James, Ltd., Burnley, Lancashire                                               |
| Prodigious, Glasgow .. ..            | Mayor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow                                |
| Proells, London .. ..                | Engineering Supplies, Ltd., Suffolk House, 4, Laurence Pountney Hill, [E.C.            |
| Profanity, Phone, London .. ..       | Hoyt Metal Co., Ltd., Deodar Rd., Putney, S.W. 15                                      |
| Projectus, London .. ..              | Projectile & Engineering Co., Ltd., New Rd., S.W. 8                                    |
| Profile, Coventry .. ..              | Webster & Bennett, Ltd., Foleshill, Coventry                                           |
| Prominent, Liverpool .. ..           | Rowse & Co., 1, Dawson St., Whitechapel, Liverpool                                     |
| Promptitude, London .. ..            | Baldwins Ltd., 3, St. Helens Place, Bishopsgate, E.C.                                  |
| Provanside, Glasgow .. ..            | Stevens A. & P., 181, St. James' Rd., Glasgow                                          |
| Publish, Westrand, London .. ..      | MacMillan & Co., Ltd., St. Martin's St., W.C. 2                                        |
| Pulleys, Birstall .. ..              | Douglas, Lawson & Co., Birstall, near Leeds                                            |
| Pulsometer, London .. ..             | Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.                                |
| Pulsometer, Reading .. ..            | Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, [Berks.                |
| Pulsometer, Glasgow .. ..            | Pulsometer Engineering Co., 160, Vincent St., Glasgow                                  |
| Pulsometer, Leeds .. ..              | Pulsometer Engineering Co., Ltd., 15, King St., Leeds                                  |
| Pulsometer, Liverpool .. ..          | Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool                             |
| Pulsometer, Manchester .. ..         | Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester             |
| Pump, Bedford .. ..                  | Allen W. H., Sons & Co., Ltd., Queen's Engineering Works, Bedford                      |
| Pump, London .. ..                   | Allen W. H., Sons & Co., Ltd., 1, Queen Anne's Chambers, S.W.                          |
| Pumping, Westcent, London .. ..      | Worthington Pump Co., Ltd., Queen's House, Kingsway, W.C.                              |
| Pumps, Clydebank .. ..               | Dawson & Downie, Ltd., Elgin Works, Clydebank, Scotland                                |
| Pumps, Hamilton .. ..                | Downton, Taylor, & Co., Hamilton, Scotland                                             |
| Pumps, Manchester .. ..              | Fearn F. & Co., Ltd., West Gorton, Manchester                                          |
| Pumps, Stoke-on-Trent .. ..          | Shore Thos., & Sons, Ltd., Etruria, Stoke-on-Trent                                     |
| Pyrenexin, Sowest, London .. ..      | Pyrene Co., Ltd., 9, Grosvenor Gardens, S.W. 1                                         |
| Quality, Worcester .. ..             | Hardy & Padmore, Ltd., Worcester Foundry, Worcester                                    |
| Racerine, Phone, London .. ..        | Russell Oil Co., 36, Short Rd., Stratford, E. 15                                       |
| Radford, Sheffield .. ..             | Radford R., Heber, Son & Squire, 15, St. James Row, Sheffield                          |
| Rails, Widnes .. ..                  | White Rd., & Sons, Widnes, Lancs.                                                      |
| Railway, Darlington .. ..            | McLachlan & Co., Ltd., Darlington                                                      |
| Ramsday, Birmingham .. ..            | Ramsday & Marshall, Ltd., Birmingham                                                   |
| Ransome, Cent, London .. ..          | Ransome A., & Co., Ltd., 63, Queen Victoria St., E.C.                                  |
| Ransome, Newark .. ..                | Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent                                |

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                                         |
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| Ransomes, Ipswich .. ..           | Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich                                 |
| Rapidising, London .. ..          | Davis B. J., Great Eastern Rd., Stratford, E.                                           |
| Ratchet, Glasgow .. ..            | Davie Bros., Ltd., Glasgow                                                              |
| Raworth, Vic., London .. ..       | Raworth, John E. & Moss, 75, Victoria St., S.W. 1                                       |
| Readers, Nottingham .. ..         | Reader E., & Sons, Phoenix Works, Cremorne St., Nottingham                              |
| Reavell, Ipswich .. ..            | Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich                                  |
| Recording, Manchester .. ..       | Lea Recorder Co., Ltd., 28, Deansgate, Manchester                                       |
| Reddaway, London .. ..            | Reddaway F., & Co., Ltd., 50 & 51, Lime St., E.C.                                       |
| Redpath, Edinburgh .. ..          | Redpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh                             |
| Reducing, Glasgow .. ..           | Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow                                    |
| Regency, Phone, London .. ..      | Westminster Engineering Co., Ltd., Victoria Rd., N.W. 10                                |
| Reid, Linwood .. ..               | Reid Gear Co., Linwood, near Paisley                                                    |
| Rekrap, Birmingham .. ..          | Precision Gauges, Ltd., Wrentham St., Birmingham                                        |
| Reublan, Vic., London .. ..       | Rendle, Blanchard & Co., Ltd., 5, Victoria St., S.W. 1                                  |
| Repairs, Immingham Dock Station   | Humber Graving Dock & Engineering Co., Ltd., King's Dock, Immingham                     |
| Repeat, Birmingham .. ..          | Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham                       |
| Repsor, Portsmouth .. ..          | Vosper & Co., Ltd., Broad St., Portsmouth                                               |
| Reversing, Liverpool .. ..        | Kitchen's Reversing Rudder Co., Ltd., 747, Royal Liver Buildings, Liverpool             |
| Revolving, Birmingham .. ..       | Timbrell & Wright Machine Tool & Engineering Co., Ltd., Birmingham                      |
| Reyrolle, Hebburn .. ..           | Reyrolle A., & Co., Ltd., Hebburn-on-Tyne                                               |
| Rheostat, Glasgow .. ..           | Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow                                       |
| Rhodes, Hartford .. ..            | Rhodes Manufacturing Co., Hartford, Conn., U.S.A.                                       |
| Richards, Altrincham .. ..        | Richards Geo., & Co., Ltd., Broadheath, near Manchester                                 |
| Richards, Wednesbury .. ..        | Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                                 |
| Richardsons, Hartlepool .. ..     | Richardsons, Westgarth & Co., Ltd., Hartlepool Engine Works,                            |
| Ridel, Glasgow .. ..              | Riddel, John H., Ltd., 40, St. Enoch Square, Glasgow [Hartlepool                        |
| Rivetter, Leeds .. ..             | Berry Henry, & Co., Ltd., Croydon Works, Leeds                                          |
| Robey, Lincoln .. ..              | Robey & Co., Ltd., Lincoln                                                              |
| Robinson, Rochdale .. ..          | Robinson T., & Son, Ltd., Rochdale                                                      |
| Robsons, Shipley .. ..            | Robson John (Shipley), Ltd., Shipley, Yorkshire                                         |
| Roe, West Drayton .. ..           | Power Plant Co., Ltd., West Drayton, Middlesex                                          |
| Rocket, Darlington .. ..          | Stephenson Robert, & Co., Ltd., Darlington                                              |
| Roebuck, Phone, London .. ..      | Buck & Hickman, Ltd., 214, Whitechapel Rd., E. 1                                        |
| Roofs, Darlaston .. ..            | Rubery, Owen, & Co., Darlaston, South Staffordshire                                     |
| Rose, Hull .. ..                  | Rose, Downs & Thompson, Ltd., Old Foundry, Hull                                         |
| Rotating, Boroh, London .. ..     | Whitaker R. G., Ltd., 22, Southwark Bridge Rd., S.E. 1                                  |
| Rotomarov, Fleet, London .. ..    | Feuerherd's Rotors (British Empire), Ltd., New Bridge St. House, New Bridge St., E.C. 4 |
| Rousillon, Richmond, Surrey .. .. | Watson Stanley J., 37, Sheen Rd., Richmond, S.W. 14                                     |
| Rowan, Glasgow .. ..              | Rowan David, & Co., 231, Elliot St., Glasgow                                            |
| Ruspoll, London .. ..             | Smith S., & Sons, Ltd., 6, Grand Hotel Buildings, Trafalgar Sq., W.                     |
| Ruston, Cannon, London .. ..      | Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4                                  |
| Russell, Motherwell .. ..         | Russell G., & Co., Ltd., Motherwell, N.B.                                               |
| Ruston, Lincoln .. ..             | Ruston & Hornsby, Ltd., Sheaf Iron Works, Lincoln                                       |
| Ryson, Chicago .. ..              | Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.                                         |
| Sanderson, Sheffield .. ..        | Sanderson Bros., & Newbould, Ltd., Sheffield                                            |
| Sandon, Patricroft .. ..          | Browett Lindley, & Co., Ltd., Patricroft, Manchester                                    |
| Sands, Colwick, Nottingham .. ..  | Sands Geo., & Son, Ltd., Colwick, Nottingham                                            |
| Sandycroft, Hawarden .. ..        | Sandycroft Limited, near Chester                                                        |
| Sankey, Wellington, Salop .. ..   | Sankey Joseph, & Sons, Ltd., Wellington, Shropshire                                     |
| Satisfactory, Liverpool .. ..     | Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                                    |
| Satisfy, Glasgow .. ..            | Hamilton A. H., & Co., Possilpark, Glasgow                                              |

| TELEGRAPHIC ADDRESS.           | NAME AND ADDRESS OF ADVERTISER.                                                        |
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| Saturation, Norwest, London .. | White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W. 1                           |
| Saws, Birmingham ..            | Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet, Birmingham                    |
| Scholarly, London ..           | Arnold Edward, 41 & 43, Maddox St., W.                                                 |
| Scott, Keighley, 381 ..        | Scott Bros. (Keighley), Albion Works, Keighley                                         |
| Scotubeco, Glasgow ..          | Scottish Tube Co., Ltd., 34, Robertson Street, Glasgow                                 |
| Scow, Rutherglen ..            | Chalmers Wm., & Co., Ltd., Rutherglen, Scotland                                        |
| Scrabvau, Vaux., London ..     | Buyers of Scrap Metal, Ltd., 23, King St., E.C. 2                                      |
| Screened, Glasgow ..           | Cousland A., & Son, 3, Mitchell's St., Glasgow                                         |
| Screens, Lincoln ..            | Fenney & Co., Ltd., City Iron & Steel Works, Lincoln                                   |
| Screw, Preston ..              | Friedenthals, Ltd., River Engine Works, Preston                                        |
| Seafeld, Manchester ..         | Steam Cylinder Lubricator Co., Ltd., Gordon Wks., Lower Broughton, [Manchester         |
| Seagers, Dartford ..           | Seagers, Ltd., Dartford                                                                |
| Sections, Leeds ..             | Dunlop & Ranken, Ltd., 47, Water Lane, Leeds                                           |
| Segment, Liverpool ..          | Brundrit Joseph, 14, Water St., Liverpool                                              |
| Selsoner, Cent., London ..     | Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C. 4                           |
| Seyah, London ..               | Hayes Edward, Palace Chambers, 9, Bridge St., S.W.                                     |
| Shanks, Johnstone ..           | Shanks Thomas, & Co., Union Ironworks, Johnstone, near Glasgow                         |
| Shatterlys, Piccy, London ..   | Triplex Safety Glass Co., 1, Albemarle St., W.                                         |
| Shaw, Wolverhampton ..         | Shaw John, & Sons (Wolverhampton), Ltd., Wolverhampton                                 |
| Shells, Edinburgh ..           | Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh                            |
| Shelzine, Westcent, London ..  | Shell Marketing Co., Ltd., Parker St., Kingsway, W.C. 2                                |
| Shephoist ..                   | Shepherd Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.                       |
| Shikari, Led., London ..       | Leopold Walford (London), Ltd., 29, Great St. Helens, E.C. 3                           |
| Shiplumb, Glasgow ..           | Houston J. W., & Co., Partick Cross, Glasgow                                           |
| Shipyard, Troon ..             | Alisa Shipbuilding Co., Ltd., Troon, N.B.                                              |
| Shoremat, New York ..          | Shore Instrument & Mfg. Co., Van Wyck Av. & Carl St., Jamaica, New York, U.S.A.        |
| Showell, Starchley, Showell .. | Showell E., & Sons, Ltd., Starchley, Birmingham                                        |
| Niebe, Lamb., London ..        | Niebe, Gorman & Co., Ltd., Neptune Works, London, S.E.                                 |
| Siemens, Motherwell ..         | Lanarkshire Steel Co., Ltd., Motherwell                                                |
| Siemens, Woolwich ..           | Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 18                                   |
| Sightseer, London ..           | Stone J. B., & Co., Ltd., 135, Finsbury Pavement, E.C.                                 |
| Silently, London ..            | Parsons C. A., & Co., Ltd., 8, Victoria St., S.W.                                      |
| Silica, Liverpool ..           | Graves & Co., Ltd., 14, Water St., Liverpool                                           |
| Silvergray, Cannon, London ..  | India Rubber, Gutta Percha, and Telegraph Works Co., Ltd., 106, Cannon St., E.C.       |
| Silverine, London ..           | Baldwins Ltd., Orchard Place, Blackwall, E.                                            |
| Simons, Renfrew ..             | Simons W., & Co., Ltd., Renfrew, Scotland                                              |
| Sirocco, Belfast ..            | Davidson & Co., Ltd., Sirocco Engineering Works, Belfast                               |
| Sisson, Gloucester ..          | Sisson W., & Co., Ltd., Gloucester [Trent                                              |
| Sites, Burton-on-Trent ..      | Burton-on-Trent Development Committee, Town Hall, Burton-on-                           |
| Skefko, Luton ..               | Skefko Ball Bearing Co., Ltd., Skefko Works, Luton, Beds.                              |
| Sleeper, Worcester, Mass. ..   | Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.                                     |
| Small Arms, Birmingham ..      | Birmingham Small Arms Co., Ltd., Birmingham                                            |
| Smedleys, Belper ..            | Smedley Bros., Ltd., Belper, Derbyshire                                                |
| Smith, Rodley ..               | Smith Thos., & Sons (Rodley), Ltd., Steam and Electric Crane Works, Rodley, near Leeds |
| Smith's, Nottingham ..         | Smith Sydney, & Sons (Nottingham), Ltd., Nottingham                                    |
| Smidszoon, Kinderdijk ..       | Smit L., & Zoons, Scheeps en Werktuigbouw, Kinderdijk, near Rotterdam, Holland         |
| Sogenique, Cent., London ..    | Société Genevoise d'Instruments & Physique, 95, Queen Victoria St.,                    |
| Sohn, Paisley ..               | Campbell & Calderwood, Soho Works, Paisley, Scotland [E.C. 4                           |
| Sokalsig, London ..            | Sokal S., 1, Great James St., Bedford Row, W.C. 1                                      |
| Solsonstru, Cannon, London ..  | Consolidated Construction Co., Ltd., 9, Cloak Lane, Cannon St.,                        |
| Solution, London ..            | Vacuum Brake Co., 32, Queen Victoria St., E.C. [E.C. 4                                 |

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| Somers, Halesowen .. ..                 | Somers, Walter, Ltd., Halesowen                                          |
| Sondela .. ..                           | Parker J. E., P.O. Box 559, Pretoria, South Africa                       |
| Speedily, Northfield .. ..              | Auslin Motor Co., Ltd., Northfield, Birmingham                           |
| Sphere, Birmingham .. ..                | Rudge-Whitworth, Ltd., Sparkhill, Birmingham                             |
| Spherical, Newton Heath .. ..           | Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester                |
| Spherically, Phone, London .. ..        | Hilger Adash, Ltd., 73a, Camden Rd., N.W. 1                              |
| Spiral, West Bromwich .. ..             | West Bromwich Staffordshire Spring Co., West Bromwich                    |
| Springs, Cardiff .. ..                  | Cottam, Edwin, & Co., Ltd., Bute Steel & Spring Works, Cardiff           |
| Springs, Redditch .. ..                 | Terry Herbert, & Sons, Redditch                                          |
| Springs, Westbromwich .. ..             | Smith, Bros., & Hill, Ltd., Albert Spring Works, West Bromwich           |
| Spruceness, Phone, London .. ..         | Crane-Bennett, Ltd., 45-51, Leman St., E. 1.                             |
| Spumante, Tottlane, London .. ..        | Sparklets & General Mfg. Co., Ltd., Angel Rd., Edmonton, N. 18           |
| Stampings, Ayr .. ..                    | Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr,           |
| Stampings, Middlesbro' .. ..            | Heavy Stampings, Ltd., Middlesbrough [Scotland                           |
| Stamps, Coventry .. ..                  | Coventry Stamping Co., Ltd., Holbrooks Lane, Coventry                    |
| Standard, Leicester .. ..               | Standard Engineering Co., Ltd., Leicester                                |
| Stapely, New York .. ..                 | Wonham, Bates & Goode (Inc.), 17, Battery Place, New York City, U.S.A.   |
| Stark, Manchester .. ..                 | United Brass Founders & Engineers, Ltd., Cornbrook, Manchester           |
| Steadfast, Sheffield .. ..              | Stead J., & Co., Ltd., Manor Works, Sheffield                            |
| Steam, Bradford .. ..                   | Holdsworth & Sons, Ltd., Leeds Rd., Bradford                             |
| Steamflow, London .. ..                 | Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.                  |
| Steamport, London .. ..                 | Hindley E. S., & Sons, 11, Queen Victoria St., E.C.                      |
| Steam Users, Manchester .. ..           | Manchester Steam Users' Association, 9, Mount St., Manchester            |
| Steel, Caishead .. ..                   | Partington Steel & Iron Co., Ltd., Irlam, Manchester                     |
| Steel, Darlston .. ..                   | Lloyd F. H., & Co., Ltd., James Bridge Steel Works, nr. Wednesbury       |
| Steel, Glasgow .. ..                    | Steel Company of Scotland (Limited), 23, Royal Exchange Square,          |
| Steel, Halesowen .. ..                  | Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham [Glasgow            |
| Steelite, Westcott, London .. ..        | Allied Steel Makers & Founders, Ltd., Central House, Kingsway, W.C. 2    |
| Steelmets, Birmingham .. ..             | Bradley & Foster, Ltd., 105, Colmore Row, Birmingham                     |
| Steinie, 53, Victoria St., London .. .. | Steinie Turret Machine Co., 35, Victoria St., S.W.                       |
| Stemet, Coventry .. ..                  | Sterling Metals, Ltd., Coventry                                          |
| Stewart, Glasgow .. ..                  | Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow               |
| Stirk, Halifax .. ..                    | Stirk John, & Sons, Ltd., Halifax                                        |
| St. Nicholas, Carlisle .. ..            | Cowans, Sheldon & Co., Ltd., Carlisle                                    |
| Stoker, Leeds .. ..                     | Triumph Stoker, Ltd., Kirkstall Rd., Leeds                               |
| Stokes, Deritend, Birmingham .. ..      | Stokes A., & Co., Green St., Birmingham                                  |
| Stores, Sheffield .. ..                 | Tasker's Engineering Co., Ltd., Sheffield                                |
| Stothert, Bath .. ..                    | Stothert & Pitt, Ltd., Bath                                              |
| Stothert, London .. ..                  | Stothert & Pitt, Ltd., 53, Victoria St., S.W.                            |
| Strashaw, Bristol .. ..                 | Strachan & Henshaw, Ltd., Bristol                                        |
| Strawboard, Manchester .. ..            | Goodman G., Park St., Manchester                                         |
| Strength, Manchester .. ..              | Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester |
| Stringer, West Bromwich .. ..           | Stringer Bros., West Bromwich, South Staffs.                             |
| Stringer, Wincobank .. ..               | Stringer & Co. (Sheffield), Ltd., Sheffield                              |
| Structural, Birmingham .. ..            | Constructional Engineering Co., Charles Henry St., Birmingham            |
| Sturtevant, London .. ..                | Sturtevant Engineering Co., Ltd., 147, Queen Victoria St., E.C.          |
| Sudrons, Stockton-on-Tees .. ..         | Sudron Thos., & Co., Ltd., Stockton-on-Tees                              |
| Summerson, Darlington .. ..             | Summerson Thomas, & Sons, Ltd., Darlington                               |
| Superunits, Swansea .. ..               | Superheater Units, Ltd., 4, Castle Square, Swansea                       |
| Survey, Sheffield .. ..                 | Longbotham Jonathan, & Sons, Ltd., Water Lane, Sheffield                 |
| Sutcliffe Bros., Hyde .. ..             | Sutcliffe Bros., Soho Works, Godley, near Manchester                     |
| Swartwout, Cleveland .. ..              | Ohio Body & Blower Co., Cleveland, Ohio, U.S.A.                          |
| Swiftly, Halifax .. ..                  | Swift George, & Sons, Ltd., Range Bank, Halifax                          |
| Switch, Manchester .. ..                | Royce Ltd., Trafford Park, Manchester                                    |

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| Talbot, Walsall .. ..               | Talbot-Stead Tube Co., Ltd., Walsall                                            |
| Tangyes, Birmingham .. ..           | Tangyes Limited, Cornwall Works, Birmingham                                     |
| Tangyes, London .. ..               | Tangyes Limited, 35, Queen Victoria St., E.C.                                   |
| Tanks, Birmingham .. ..             | Ash Joseph & Son, Rea Works, Rea St. South, Birmingham                          |
| Taps, Salford .. ..                 | Widdowson John H., Britannia St., Ordsall Lane, Salford, Manchester             |
| Tay, Glasgow .. ..                  | Arrol Sir Wm., & Co., Ltd., Dalmarnock Ironworks, Bridgeton, Glasgow [Tees]     |
| Teesdale, Stockton-on-Tees .. ..    | Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-Tees               |
| Teleba, Birmingham .. ..            | Brookes & Adams, 250-252, Barr St., Hockley, Birmingham                         |
| Telltale, Walthill, London .. ..    | Newhall Engineering Co., Walthamstow, E. 17                                     |
| Temperature, London .. ..           | Green & Boulding, Ltd., 28, New Bridge St., E.C.                                |
| Temples, Shipley .. ..              | Parkinson J., & Son, Shipley, Yorkshire                                         |
| Tension, Smethwick .. ..            | United Spring Co., Smethwick, Staffs.                                           |
| Tested, Manchester .. ..            | Herbert Edward G., Ltd., Chapel St., Levenshulme, Manchester                    |
| Tetratoffic, Stockton-on-Tees .. .. | Power Gas Corporation, Ltd., Stockton-on-Tees                                   |
| Theorem, Patricroft .. ..           | Gardner L., & Sons, Ltd., Barton Hall Engineering Works, Patricroft, Manchester |
| Thermotank, Glasgow .. ..           | Thermotank Co., 55, West Regent St., Glasgow                                    |
| Thompson Bros., Bilston .. ..       | Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston            |
| Thormotvin, Vic., London .. ..      | Ironite Co., Ltd., 11, Old Queen St., Westminster, S.W. 1                       |
| Thornycroft, Basingstoke .. ..      | Thornycroft J. I., & Co., Ltd., Basingstoke                                     |
| Thornycroft, Vic., London .. ..     | Thornycroft J. I., & Co., Ltd., 10, Grosvenor Place, S.W. 1                     |
| Thornycroft, Southampton .. ..      | Thornycroft J. I., & Co., Woolston, Southampton                                 |
| Tick-Tack, Reg., London .. ..       | Stillaxite Co., 4, Hanover St., W. 1                                            |
| Tilghmans, Altrincham .. ..         | Tilghman's Patent Sand Blast Co., Ltd., Broadheath, nr. Manchester              |
| Tinmen, Birmingham .. ..            | Fisher & Ludlow, Ltd., Albion Works, Rea St., Birmingham                        |
| Titan, Tipton .. ..                 | Tranter's W. J., Boiler Appliance Co., Tipton, Staffordshire                    |
| Tomey, Aston, Birmingham .. ..      | Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham                |
| Tools, Bristol .. ..                | Gardner T. J., Coventry Tool Works, Bristol                                     |
| Tools, Leeds .. ..                  | Musgrave Bros., Crown Point Foundry, Leeds                                      |
| Tools, Leicester .. ..              | Lunt's Ltd., Halford St., Leicester                                             |
| Trewent, London .. ..               | Trewent F. J., & Proctor, Ltd., 43, Billiter Buildings, Billiter St.,           |
| Triwrench, Roxbury .. ..            | Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. [E.]                 |
| Tubes, Chesterfield .. ..           | Chesterfield Tube Co., Ltd., Chesterfield                                       |
| Tubes, Leeds .. ..                  | Yorkshire Copper Works, Ltd., Leeds                                             |
| Tubes, Wednesbury .. ..             | Spencer John, Ltd., Wednesbury                                                  |
| Tubes, West Bromwich .. ..          | Oriental Tube Co., Ltd., West Bromwich                                          |
| Tabularity, London .. ..            | Sugden T., Ltd., 180, Fleet St., E.C.                                           |
| Tack Blakemore, Coventry .. ..      | Tuck & Blakemore, Ltd., Coventry                                                |
| Tudor, Birmingham .. ..             | Ward H. W., & Co., Ltd., Lionel St., Birmingham                                 |
| Tullis, Clydebank .. ..             | Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow                          |
| Tullis, Glasgow .. ..               | Tullis John, & Son, Ltd., St. Ann's Leather Works, Glasgow                      |
| Turbo, Newcastle-on-Tyne .. ..      | Parsons C. A., & Co., Ltd., Heaton Works, Newcastle                             |
| Turners, Rochdale .. ..             | Turner Bros. Asbestos Co., Ltd., Rochdale                                       |
| Turretorum, London .. ..            | Jones & Lamson Machine Co., 109, Queen Victoria St., E.C.                       |
| Turtions, Sheffield .. ..           | Turton T., & Sons, Ltd., Spring Works, Sheffield                                |
| Tylerox, Cent., London .. ..        | Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C.                         |
| Typhoon, London .. ..               | Alldays & Onions, Ltd., 58, Holborn Viaduct, E.C.                               |
| Uehlingco, New York .. ..           | Uehling Instrument Co., 2,020, Empire Building, New York, U.S.A.                |
| Unbeaten, Birmingham .. ..          | Staffordshire Tube Co., Ltd., Edmund St., Birmingham                            |
| Unbeaten, Warwick .. ..             | Wallwin Co., Saltisford Ironworks, Warwick                                      |
| Unbreakable, London .. ..           | Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.                         |
| Unbreakable, Manchester .. ..       | Wells A. C., & Co., Carnarvon St., Cheetham, Manchester                         |
| Universe, Birmingham .. ..          | Forbes Brothers, Doe St., Birmingham                                            |

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| Urgent, Sheffield .. ..             | Darwin & Milner, Ltd., Sheffield                                                    |
| Uskside, Newport, Mon. .. ..        | Uskside Ironworks, Newport, Mon.                                                    |
| Utility, Coventry .. ..             | John T. G., Ltd., Holyhead Rd., Coventry                                            |
| Vacuo, Vic., London .. ..           | Consolidated Brake and Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W. 1  |
| Vacuumiser, Walgreen, London .. ..  | British Vacuum Cleaner Co., Parson's Green Lane, S.W.                               |
| Valve, Glasgow .. ..                | Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow                                  |
| Valve, Liverpool .. ..              | Metallic Valve Co., Colonial House, Water St., Liverpool                            |
| Vanner, Erith .. ..                 | Fraser & Chalmers Engineering Works, Erith, Kent                                    |
| Vaporific, Stamford .. ..           | Kitson Empire Lighting Co., Ltd., Stamford, Lincs.                                  |
| Vaporize, London .. ..              | Caird & Bayner, 777, Commercial Rd., Limehouse, E.                                  |
| Varispeed, Vic., London .. ..       | Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W. 1                         |
| Vaunting, Manchester .. ..          | Vaughan Crane Co., Ltd., Openshaw, Manchester                                       |
| Velcling, London .. ..              | Thomas & Bishop, 37, Tabernacle St., E.C.                                           |
| Ventifania, Wol., London .. ..      | Fitters' Ventilating & Engineering Co., Ltd., Woolwich, S.E. 18                     |
| Ventilate, Manchester .. ..         | Wood Edward, & Co., Ltd., Ocean Iron Works, Manchester                              |
| Venture, London .. ..               | Jensen & Son, 77, Chancery Lane, W.C.                                               |
| Vermehrice, Swoest, London .. ..    | Ransome-verMehrc Machinery Co., Ltd., 14 & 16, Grosvenor Gardens, Westminster, S.W. |
| Vertical, Hyde Park, Mass. .. ..    | Becker Milling Machine Co., Hyde Park, Boston, U.S.A.                               |
| Vickers, Leeds .. ..                | Vickers Benjn. R., & Sons, Ltd., Leeds                                              |
| Vickers, London .. ..               | Vickers Limited, Vickers House, Broadway, Westminster, S.W.                         |
| Vickers, Sheffield .. ..            | Vickers Limited River Don Works, Sheffield                                          |
| Vicksnag, Phone, Birmingham .. ..   | British Lighting & Ignition Co., Ltd., Blic Works, Cheston Rd. Aston, Birmingham    |
| Viking, Birmingham .. ..            | Alexander George H., Coleshill St., Birmingham                                      |
| Vilvalle, London .. ..              | Beardshaw J., & Son, Ltd., 38, Victoria St., S.W.                                   |
| Vilvalle, London .. ..              | Waiber W. A., & Co., 38, Victoria St., Westminster, S.W.                            |
| Vires, Liverpool .. ..              | Brown W. B., & Co. (Bankhall), Ltd., Globe Works, Bankhall Liverpool                |
| Viscosity, Vic., London .. ..       | Brunton & Trier, 36, Victoria St., Westminster, S.W. 1                              |
| Vitali, Mercadante 17, Milano .. .. | Vitali Carlo, 94, Viale Abruzzi, Milan, Italy                                       |
| Vitandum, Blackburn .. ..           | Tattersall A. A., & Co., Blackburn                                                  |
| Voldance, London .. ..              | Hughes & Lancaster, 16, Victoria St., Westminster, S.W.                             |
| Vulcan, Liverpool .. ..             | Henderson & Glass, Liverpool                                                        |
| Vulcan, Paisley .. ..               | Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley        |
| Vulpes, Leeds .. ..                 | Leeds Forge Company, Ltd., Leeds                                                    |
| Wagon, Birmingham .. ..             | Midland Railway Carriage and Wagon Co., Ltd., Midland Works, Birmingham             |
| Wagonload, London .. ..             | Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W.                                 |
| Wake, Darlington .. ..              | Wake John Fredk., 123, Victoria Rd., Darlington                                     |
| Wall, Newcastle-on-Tyne .. ..       | Wallend Slipway & Engineering Co., Ltd., Wallend                                    |
| Warmth, Liverpool .. ..             | Kermodes Ltd., 35, The Temple, Dale St., Liverpool                                  |
| Washers, Wednesbury .. ..           | Hampton & Beebee, Ltd., Wednesbury, South Staffs.                                   |
| Waterside, Ipswich .. ..            | Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich                               |
| Water tanks, Wolverhampton .. ..    | Kennicott Water Softener Co., Ettingshall Works, Wolverhampton                      |
| Waygood, Sedist, London .. ..       | Waygood-Otis, Ltd., Falmouth Rd., S.E.                                              |
| Webb, Combs .. ..                   | Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                                 |
| Wedge, Leeds .. ..                  | Kaye Jos., & Sons, Ltd., Lock Works, Leeds                                          |
| Weigh, Leeds .. ..                  | Denison Samuel, & Son, Ltd., Far Hunslet, Leeds, S.                                 |
| Weldless, Birmingham .. ..          | Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                        |

| TELEGRAPHIC ADDRESS.             | NAME AND ADDRESS OF ADVERTISER.                                                        |
|----------------------------------|----------------------------------------------------------------------------------------|
| Weldless, Coatbridge .. ..       | Weldless Chains, Ltd., Gartsherrie, Coatbridge                                         |
| Wellington, Middlesboro' ..      | Shaw W., & Co., Wellington Cast Steel Foundry, Middlesboro'-on-Tees                    |
| Wellecoy, London .. ..           | Oil Well Supply Co., Dashwood House, New Broad St., E.C.                               |
| Werfconrad, Haarlem .. ..        | Werf Conrad, N.V., Haarlem, Holland                                                    |
| Westcelite, London .. ..         | Eucyrus Co., 13, Victoria St., Westminster, S.W.                                       |
| Western, Aurora, Illinois ..     | Western Wheel Scraper Co., Aurora, Illinois, U.S.A.                                    |
| Westinghouse, London .. ..       | Westinghouse Brake Co., Ltd., 82, York Rd., King's Cross, N.                           |
| Westinghouse, Manchester ..      | British Westinghouse Electric & Manufacturing Co., Ltd., Trafford Park, Manchester     |
| Westminster, Birmingham ..       | Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham.                      |
| Westoleico, Putney, London ..    | Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W. 15.          |
| Westwood, Millwall, London ..    | Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.                               |
| Wheels, Kidderminster .. ..      | Bradley & Turton, Ltd., Calderwood Foundry, Kidderminster                              |
| White, East Cowes .. ..          | White J. Samuel, & Co., Ltd., East Cowes, I.O.W.                                       |
| Whitefield, Glasgow .. ..        | Ross & Duncan, Whitefield Works, Glasgow                                               |
| Whitewess, Manchester .. ..      | White H. B., & Co., John Dalton St., Manchester                                        |
| Whites, Pendleton, Manchester    | White's Injectors, Ltd., Pendleton, Manchester                                         |
| Wiggins, Minorics, London ..     | Wiggins F., & Sons, 102, 103 & 104, Minorics, E.                                       |
| Willey, Darlaston .. ..          | Willey James, & Sons, Ltd., Darlaston                                                  |
| Wilcox, Southwark St., London .. | Wilcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.                               |
| Willets, Junr., Cradley Heath .. | Willets Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.                   |
| Willrich, New York .. ..         | Williams J. H., & Co., 91, Richards St., Brooklyn, New York, U.S.A.                    |
| Wilmil, Birmingham .. ..         | Mills William, Ltd., Grove St., Birmingham                                             |
| Wincott, Sheffield .. ..         | Wincott G. P., Ltd., 180, Attercliffe Road, Sheffield                                  |
| Windlass, Glasgow .. ..          | Napier Bros., Ltd., 130, Hydepark St., Glasgow, W.                                     |
| Windtight, London .. ..          | Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.                   |
| Windtight, Newcastle-on-Tyne ..  | Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger St. West, Newcastle-on-Tyne |
| Winn, Birmingham .. ..           | Winn Charles, & Co., Granville Place, Birmingham                                       |
| Wiredrawn, Led., London .. ..    | Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, B.C. 2                                   |
| Woodite, Mitcham .. ..           | Woodite Company, Mitcham Common, Surrey                                                |
| Woodworker, Leicester .. ..      | Wadkin & Co., London Street, Leicester                                                 |
| Wright, Tipton .. ..             | Wright's Forge and Engineering Co., Ltd., Tipton, Staffordshire                        |
| Yarrow, Glasgow .. ..            | Yarrow & Co., Ltd., Glasgow                                                            |
| Yates, Blackburn .. ..           | Yates & Thom, Ltd., Canal Works, Blackburn                                             |
| Yennif, Birmingham .. ..         | Finney George, & Co., Berkley St., Birmingham                                          |
| Yewtree, Prescott .. ..          | Prescot Engineering Co., Ltd., Prescott, Lancs.                                        |
| Zenith, Regent, London .. ..     | Zenith Carburettor Co., Ltd., 40-42, Newan St., W. 1                                   |
| Zero, Derby .. ..                | Haslam Foundry and Engineering Co., Ltd., Derby                                        |
| Zero, Derby .. ..                | Penther & Wood, Ltd., Union Foundry, Derby                                             |



sous lesquels sont classées dans la présente brochure les annonces publiées dans "ENGINEERING."

| Français.                                                          | Anglais.                                                    | Français.                                       | Anglais.                                       | Français.                                                  | Anglais.                                         |
|--------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------|
| Accessoires de locomotives                                         | Locomotives (Mountings for)                                 | Aspirateurs et Montee-Lifts                     | Aspirateurs                                    | Bois (procédés pour le séchage et la conservation du)      | Bois drying and preserving                       |
| Accessoires de machines à vapeur et chaudières                     | Engine- and Boiler Fittings                                 | Aspirateurs de gaz                              | Exhausters                                     | Boîtes                                                     | Boxes                                            |
| Accessoires pour chaudières                                        | Boiler Mountings                                            | Aspirateurs de poussières                       | Gas Exhausters                                 | Bouées (en tôle)                                           | Buoys (Iron and Steel)                           |
| Accumulateurs (pour Couplages) (Shaft)                             | Couplings (Shaft)                                           | Assureurs de chaudières                         | Boiler Insurance Co.'s                         | Bougies d'allumage                                         | Sparkign Plugs (voir Igniters, Electric)         |
| Accumulateurs élec.                                                | Accumulators (Electric)                                     | Attaches et agrafes pour                        | Belt Fasteners                                 | Bouilleurs                                                 | Disilling (Water) Apparatus                      |
| Aiguilles, outils, spécial et Steel (Tool, Special and High-speed) | Needles                                                     | Attelettes (chemin de fer)                      | Couplings (Railway)                            | Boulons, rivets, écrous, vis, etc.                         | Bolts, Rivets, Nuts, Screws, etc.                |
| Acier                                                              | Steel                                                       | Automobiles                                     | Motor Vehicles                                 | Boussoles                                                  | Compasses                                        |
| Aéroplanes                                                         | Aeroplanes                                                  | Bâches, récipients, fûts                        | Tanks and Drums                                | Bouteilles à gaz                                           | Bottles (Gas) voir Gas Cylinders                 |
| Avions                                                             | Planes                                                      | Bagues métalliques pour                         | Metallic Packing                               | Brasseries (installations de)                              | Brewery Plant                                    |
| Agents de Brevets                                                  | Patent Agents                                               | Bagues pour pistons                             | Piston Packing                                 | Brevets—loi                                                | Patent Law (Manufacturers under)                 |
| Appareils à l'usage mécanique à l'usage de la machine à vapeur     | Mechanical and Steam Engines                                | Bandages pour navires                           | Ships                                          | Brevets sur les inventions                                 | Patents on inventions                            |
| Appareils à l'usage de la machine à vapeur                         | Steam Engines                                               | Bandages en caoutchouc                          | Rubber                                         | Briques réfractaires                                       | Refractory Bricks (voir Refractory Materials)    |
| Alliages                                                           | Alloys (voir Metals, etc.)                                  | Bandages de roues                               | Tires (Railway)                                | Briques (installations de)                                 | Bricks (installations de)                        |
| Alliages phosphoreux, métaux (Phosphor Alloys)                     | Phosphorous Alloys                                          | Barreaux de grilles                             | Grates                                         | Brise-rocs                                                 | Rockbreaker (Mechanical under Water)             |
| Aluminium et produits d'aluminium                                  | Aluminium and Aluminium Goods                               | Barres (acier et fer)                           | Bars (Steel and Iron)                          | Bronze et laiton (garnitures en)                           | Brass Founders and Brass Finishers               |
| Amiante                                                            | Asbestos                                                    | Barres polies acier                             | Polished Bars                                  | Brouettes                                                  | Barrows                                          |
| Ancre                                                              | Anchor                                                      | Bascules et pesons                              | Scales and Weights                             | Broyage et séchage du charbon (installations pour)         | Coal Pulverising and drying plant                |
| Antirouille                                                        | Rust Preventive                                             | Bâtiments démontables                           | Portable Buildings                             | Broyeurs — malaxeurs pour peintures, builes, mortier, etc. | Disintegrators Mills (Paint, Oil, Mortar, etc.)  |
| Appareils à vapeur                                                 | Steam Engines                                               | Bâtiments en fer et acier                       | Iron and Steel Buildings                       | Brûleurs à gaz                                             | Burners (Gas)                                    |
| Appareils à cintrer les rails                                      | Rail-benders                                                | Bâtiments et hangars                            | Sheds and Warehouses                           | Brûleurs à huile                                           | Oil fuel Burners                                 |
| Appareils à fileter et à couper les tubes                          | Pipe-screwing and Cutting Machinery                         | Bâtiments hydrauliques                          | Hydraulic Rams                                 | Buanderies (machines pour)                                 | Laundry Machinery                                |
| Appareils à jeter de sable                                         | Sand Blast Machines                                         | Bennes ou pelles automatiques                   | Auto-grabs                                     | Bureaux à huile                                            | Oil-cans                                         |
| Appareils auxiliaires marins                                       | Marine Auxiliaries                                          | Benzine et ses succédanés                       | Petrol and its Substitutes                     | Cabestans (à vapeur hydrauliques et électriques)           | Capstans (Steam, Hydraulic and Electric)         |
| Appareils de halage                                                | Haulage Plants                                              | Béton ordinaire et armé                         | Concrete (Plain and Reinforced)                | Cables pour lumière, télégraphes, et téléphone             | Cables (Electric Light, Telegraph and Telephone) |
| Appareils de levage                                                | Lifting Machinery                                           | Béton pour les machines fabriquer               | Concrete Blocks and Slabs, Machines for Making |                                                            |                                                  |
| Appareils plongeurs                                                | Diving Apparatus                                            | Bigues                                          | Shearings                                      |                                                            |                                                  |
| Appareilles pour étouffes                                          | Cloth-finishing Machinery                                   | Blanchiment des étoffes (installations pour le) | Bleaching Machinery                            |                                                            |                                                  |
| Arbres                                                             | Arbiters                                                    | Blindages                                       | Armour plates                                  |                                                            |                                                  |
| Arbres coulés                                                      | Cast Iron                                                   | Bocards                                         | Timber                                         |                                                            |                                                  |
| Arbres de transmission et accessoires                              | Shafting and Shaft Fittings (voir Pumpers Blocks, Bearings) | Bois de construction                            | Woodworking Machinery                          |                                                            |                                                  |





| Français.                                                        | Anglais.                                                                        | Français.                                                     | Anglais.                                 | Français.                                                    | Anglais.                                                  |
|------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| Machines à fabriquer les cartouches                              | Cartridge-making chmry                                                          | Pièces de forge, métaux autres que le fer                     | Forgings (non-ferrous)                   | Souapes de réduction                                         | Valves (Reducing)                                         |
| Machines à troller                                               | Excavators                                                                      | Pièces moulées et forgées en acier au manganeuse              | Manganese Steel Cast-ings                | Souapes de retenue d'eau d'alimentation                      | Feed Check Valves (Combination)                           |
| Machines agricoles                                               | Agricultural Machinery                                                          | Forge en acier au manganeuse                                  | Forging and Steel Cast-ings              | Souapes de sûreté, indicateurs, etc.                         | Safety Apparatus and Valves (Safety)                      |
| Machines à vapeur                                                | Steam-cultivating Machinery                                                     | Pieux (appareils à fonceur les)                               | Pile Drivers                             | Substances abrasives.                                        | Abrasives                                                 |
| Machines à meuler                                                | Emery-grinding Machinery                                                        | Pieux, palplanches et sabots de pieux                         | Piles, Sheet Steel Piling and Pile Shoes | Sucre (installations pour la fabrication)                    | Sugar Machinery                                           |
| Machines de marine                                               | Engines (Marine)                                                                | Pistons et bagues métalliques                                 | Pistons and Piston-rings                 | Surchauffeurs                                                | Superheaters                                              |
| Machines d'extraction                                            | Engines (Winning)                                                               | Plaques adresses                                              | Name Plates                              | Tableaux de distribution et accessoires                      | Switchboards and accessories                              |
| Machines et instruments à essayer les métaux                     | Testing Machines and Instruments                                                | Plaques tournantes                                            | Turntables                               | Tampons                                                      | Buffers                                                   |
| Machines fixes                                                   | Engines (Stationary)                                                            | Poches de fondrière                                           | Ladles                                   | Tampons fusibles                                             | Fusible Plugs                                             |
| Machines frigorifiques                                           | Refrigerating Machinery                                                         | Poinçonneuses et cisail-                                      | Punching and Shearing Machines           | Tanneurs et corroyeurs                                       | Tanners and Curriers                                      |
| Machines hydrauliques                                            | Hydraulic Machinery                                                             | Pointes de Paris, etc.                                        | Nail (Wire etc.) Making Machinery        | Télégraphes (instruments de)                                 | Telegraph Instruments                                     |
| Machines à moudre                                                | Moulding Machines                                                               | (Machines à fabriquer les)                                    | Engines (Pumping)                        | Téléphones                                                   | Telephones                                                |
| Machines outils                                                  | Machine Tools (voir Tools, hand and small, et Second-hand Tools)                | Pompes à air                                                  | Air Pumps                                | Thé (appareils pour préparer les feuilles de)                | Thermometers (for Pyrometers and Thermometers)            |
| Machines à souder et à cisailier                                 | Welding and Cutting Machines                                                    | Pompes à vide                                                 | Pumps (Vacuum)                           | Thermomètres                                                 | Thermometers                                              |
| Machines soufflantes                                             | Engines (Blowing)                                                               | Pompes centrifuges                                            | Pumps (Centrifugal)                      | Tirage forcé et par aspiration (installations pour)          | Forced and Induced Draught Apparatus                      |
| Marteaux                                                         | Magneto's                                                                       | Pompes d'alimentation                                         | Pumps (Donkey)                           | Tolures matériel pour                                        | Roofing material                                          |
| Marteaux à béton                                                 | Concrete Mixers                                                                 | Pompes et installations d'épuisement                          | Pumps and Pumping Machinery              | Tolures (iron, steel, and zinc, voir Structural Engineering) | Zinc, voir Structural Engineering                         |
| Marteaux d'outils                                                | Hand Tools                                                                      | Pompes pour les colonies                                      | Pumps (Colonial)                         | Tôles minces (Pièces soudées en)                             | Sheet Metal Work                                          |
| Mandrins                                                         | Chucks                                                                          | Pompes turbines                                               | Pumps (Turbine)                          | Tôles découpées (et machines pour la fabrication de)         | Sheet Metal-work and Machinery                            |
| Manomètres                                                       | Gauges (Pressure)                                                               | Ponts                                                         | Bridges (voir Structural Engineering)    | Tôles découpées, fer et acier                                | Stampings (Iron and Steel)                                |
| Marchands de fer                                                 | Iron Merchants                                                                  | Portes étanches                                               | Doors (Watertight)                       | Tôles embouties et à plates                                  | Plates (Dished and Flanged)                               |
| Marteaux conduits mécaniquement                                  | Hammer (Drop)                                                                   | Poteaux, Supports                                             | Poles, Posts and Standards               | Tôles, fer et acier                                          | Plates (Iron and Steel)                                   |
| Marteaux de grosse forge                                         | Power Hammers                                                                   | Poteries (installation de)                                    | Pottery and Encaustic Tile Machinery     | Tôles perforées                                              | Perforated Metals                                         |
| Marteaux-pilons                                                  | Steam Hammers                                                                   | Poudre et coton-poudre (installations pour la fabrication de) | Gunpowder and Cotton Machinery           | Torpilles                                                    | Torpedo Boats                                             |
| Métaux et enduits calorifuges                                    | Non-conducting Compositions                                                     | Poulies de transmission, Poules (Wood)                        | Pulleys (Wood)                           | Tournevis                                                    | Turnstiles                                                |
| Matériel de chemins de fer et pour entreprises de chemins de fer | Material of Railway Rolling Stock (voir Carriage, Wagon, and Engine—Locomotive) | Poulies de transmission, fer et acier                         | Pulleys (Wrought Iron and Steel)         | Tournevis-compteurs                                          | Turnstiles                                                |
| Matériau roulant                                                 | Rolling Stock (voir Carriage, Wagon, and Engine—Locomotive)                     | Poulies de transmission, en fonte                             | Pulleys (Cast-iron)                      | Tracteurs                                                    | Engines (Traction) voir aussi Tractors (Oil, Steam, etc.) |
| Matière réfractaire                                              | Refractory Materials                                                            | Poutres et poutrelles                                         | Girders                                  | Tramways                                                     | Tramways                                                  |
| Mécanisme de distribution à soupapes                             | Valve Gear                                                                      | Presses à copier                                              | Copying Presses                          | Transmetteurs d'ordres à bord                                | Transmitters (Engine and Steering)                        |
| Métaux (acier spécial)                                           | Expanded Metal                                                                  | Presses à coton                                               | Cotton Presses                           | Transmissions et accessoires                                 | Transmissions and accessories                             |
| Métaux antiriction                                               | Metals (Antifriction)                                                           | Presses à forger                                              | Forging Presses                          | Trains                                                       | Trains                                                    |
| Métaux à tisser                                                  | Looms                                                                           | Presses hydrauliques                                          | Hydraulic Presses                        | Transporteurs                                                | Transporters                                              |
| Métaux à aiguiser                                                | Grindstones                                                                     | Presses mécaniques                                            | Presses (Power)                          |                                                              |                                                           |
| Méules (machines à moudre)                                       | Grinding Machinery                                                              | Prises d'eau                                                  | Hydrants                                 |                                                              |                                                           |
| Méules d'energi                                                  | Emery Wheels                                                                    | Produits chimiques (appareils pour la fabrication de)         | Chemical Works (Plant for)               |                                                              |                                                           |

| Meubles et fournitures de bureaux et Appareils<br>Ménagers (Installations pour)<br>Mica<br>Micromètres<br>Mises (machines pour)<br>Mines en marche et ac-<br>cessoires<br>Modèles (Fabricants de)<br>Modèles<br>Monnayage (appareils pour le)<br>Moules<br>Moteurs à essence<br>Moteurs à gaz<br>Moteurs à pétrole<br>Moteurs électriques<br>Moteurs d'acier<br>Moulages d'aluminium<br>Moulages en fonte<br>Moulages (autres que le fer)<br>Munitions<br>Navigation maritime<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>Palmiers<br>Palmiers supports<br>Paramètres<br>Peintures, vernis, etc.<br>Percuteurs<br>Perforatrices<br>Petite chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils pour)<br>Pis, pailles, et baches<br>Plas de forge (bronzes, laiton, cuivre, etc.)<br>Plas de forge (fer et acier) | Projecteurs<br>Puits artésiens<br>Pulvérisation (broyeurs pour la)<br>Purgeurs automatiques<br>Pyromètres et thermo-<br>mètres<br>Rais (acier et fer)<br>Réchauffeurs d'eau d'al-<br>imentation<br>Réducteurs de vitesse<br>Réfrigérants à cheminée<br>et autres<br>Régulateurs d'alimen-<br>tation<br>Régulateurs (pour ma-<br>chines)<br>Remorqueurs<br>Ressorts<br>Ressorts (Machines à fabriquer les)<br>Revêtements calorifuges<br>Riblons<br>Riveteuses<br>Riz (installations pour monder et perler le)<br>Roues à aigües<br>Roues dentées<br>Roues de chemins de fer<br>Roues d'engrenage en cuir<br>Roues (machines à tailler les roues)<br>Rouleaux à vapeur pour routes<br>Roulements (à rouleaux et à billes)<br>Sable de moulage<br>Scies (fabricants de)<br>Séparateurs (pour latte-<br>ries)<br>Séparateurs (pour ma-<br>chines à vapeur)<br>Siges de soupapes<br>Signaux de chemins de fer<br>Sirènes et sifflets<br>Solénoides de freinage<br>Sommettes et signaux électriques<br>Soudures<br>Soupapes (à gaz, vapeur, eau, etc.) | Search-lights<br>Tube Wells<br>Pulverisers<br>Steam Traps<br>Pyrometers and Ther-<br>mometers<br>Rails (Steel and Iron)<br>Refrigerating Plants<br>Reducers<br>Refrigerating Plants<br>and others<br>Regulators<br>Regulators (for Ma-<br>chines)<br>Remorquers<br>Ressorts<br>Ressorts (Machines for making)<br>Refrigerating Plants<br>Ribbons<br>Riveting Machines<br>Rice-dressing Ma-<br>chines<br>Roues à aigües<br>Roues dentées<br>Roues de chemins de fer<br>Roues d'engrenage en<br>cuir<br>Roues (machines to cut<br>the wheels)<br>Rollers (Steam)<br>Rollers (Ball and Ro-<br>ller)<br>Sand (Moulding)<br>Saw-makers<br>Separators (for Lathe-<br>works)<br>Separators (for Ma-<br>chine Steam)<br>Seeds of Valves<br>Signalling<br>Sirens and Whistles<br>Solenoïds (Brake)<br>Sommettes et signaux<br>électriques<br>Souders<br>Steam, Gas, Water, etc.) | Transporteurs aériens<br>Transporteurs de char-<br>bon<br>Traverses de chemins de fer<br>Treillis<br>Trieuses magnétiques<br>Trous d'homme (ferme-<br>tures de)<br>Tubes de niveau d'eau<br>Tubes (fer et acier)<br>Tubes (laiton et cuivre)<br>Tubes (métaux autres que le fer)<br>Tubes métalliques (ma-<br>chines à fabriquer les)<br>Tuiles vernies (machines pour la fabrication de)<br>Turbines<br>Turbines à vapeur<br>Tuyaux de vapeur<br>Tuyaux en fonte (fabri-<br>cants de)<br>Tuyaux soudés<br>Tuyaux toile, cuir ou caoutchouc<br>Vannes<br>Ventilateurs<br>Vérins<br>Vêtements de travail<br>Vidange (Pompes de)<br>Vis, etc.<br>Vitrierie<br>Voies suspendues<br>Voies (appareils à sou-<br>lever les)<br>Voitures de chemins de fer<br>Vulcanite et fibre vul-<br>canisée<br>Vulcanisée Fibre<br>Wagons automobiles<br>Wagons basculant<br>Wagons (constructeurs de)<br>Yachts | Rope Tramways<br>Coal-handling Plant<br>Sleepers (Railway)<br>Windlasses<br>Winches<br>Separators, Magnets, etc.<br>Manhole Doors<br>Gauge Glasses<br>Tubes (Iron and Steel)<br>Tubes (Brass and Cop-<br>per)<br>Tubes (non-ferrous)<br>Tube-making Machinery<br>Pottery and Biscuistic<br>Tubing Machinery<br>Turbines<br>Turbines and<br>Fittings<br>Steam Pipes<br>Founders<br>Pipes (Large and Lap-<br>welded)<br>Hose Pipes<br>Fans and Blowers (Ven-<br>tilators and Air Pro-<br>pellers)<br>Jacks (Lifting)<br>Boiler Suits (over-<br>alls, &c.)<br>Cesspool Exhausters<br>Screws, etc.<br>Glazing<br>Runways<br>Rail-lifters<br>Carriage<br>Builders<br>Vulcanite and Vulcan-<br>ised Fibre<br>Wagons, Self-Propelled<br>(over Motor Vehicles)<br>Wagons (Tip)<br>Wagons (Railway) Build-<br>ers<br>Yachts |
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(SPANISH GLOSSARY). TRADUCCION DE LOS TITULOS  
con que están clasificados en este librerio los anuncios que publica "ENGINEERING."

| Español.                                           | Ingles.                                              | Español.                                                 | Ingles.                                  | Español.                                          | Ingles.                         |
|----------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|------------------------------------------|---------------------------------------------------|---------------------------------|
| Accesorios para calderas y aparatos de medida      | Boiler Mountings and Scientific Apparatus            | Bombas centrífugas                                       | Pumps (Centrifugal)                      | Comerciantes (Hierro y acero)                     | Insurance Companies             |
| Acero-manganeso (Piezas fundidas y forjadas)       | Manganese Steel Castings and Forgings                | Bombas de aire                                           | Air Pumps                                | Compañías de seguros de gas                       | Gas Compressors (High-pressure) |
| Aceteras                                           | Oil-cans                                             | Bombas parascorrientes                                   | Pumps (Turbine)                          | Compuertas de esclusas                            | Sluices                         |
| Acero para herramientas especial y rápido          | Steel (Tool, Special and High-speed)                 | Bombas y máquinas elevadoras de agua                     | Pumps and Machinery                      | Condensadores destilatorios                       | Distilling (Water) Apparatus    |
| Acero y metal troqueado (Piezas de)                | Work Pressed Steel and Metal                         | Botellas de gas                                          | Bottles (gas)                            | Condensadores para máquinas de vapor              | Condensers (for Steam-engines)  |
| Aceros moldeados                                   | Castings (Steel)                                     | Boyas (de hierro y acero)                                | Buoys (Iron and Steel)                   | Condensadores por irrigación                      | Condensers (Evaporative)        |
| Acoplamientos de árboles                           | Couplings (Shaft)                                    | Bronce fosfórico y otras aleaciones                      | Metals (Phosphor Alloys), etc.           | Construcciones de hierro galvanizado              | Iron Buildings                  |
| Acumuladores eléctricos                            | Accumulators (Electric)                              | Bronce (piezas fundidas en—y terminadas de ajuste)       | Brass Founders and Finishers             | Contadores ..                                     | Speed Indicators and Counters   |
| Acuñar (Máquinas de)                               | Mint Machinery                                       | Brújulas                                                 | Compasses                                | Contadores de vueltas                             | Counters (for revolutions)      |
| Aeroplanos e hidroplanos                           | Aeroplanes and Seaplanes                             | Buques de encendido                                      | Sparkign Plugs (ver Igniters, Electric)  | Contadores de agua                                | Water Meters                    |
| Aflar, Materiales de                               | Abrasives                                            | Buques con motor de petróleo                             | Motor Boats                              | Contratistas ..                                   | Contractors                     |
| Agintensura (Instrumentos de)                      | Instrument (Surveying)                               | Cables ..                                                | Cables (Electric Light, Telephone)       | Corchetes para cerrar correas                     | Belt Fasteners                  |
| Agentes de privilegios.                            | Patent Agents                                        | Cables de cadena                                         | Cables (chain)                           | Correas de cuero, tela, vas, etc.)                | Belting (Leather, Canvas, etc.) |
| Ajustamiento mecánico (Trabajos de)                | Machining for the Trade                              | Cables electrónicos                                      | Electric Cables                          | Corredores de rieles                              | Rail-benders                    |
| Aglomerados (Instalaciones para la fabricación de) | Briquette (Machinery)                                | Cables submarinos (Aparatos para colocarlos)             | Cable Laying Machinery                   | Cribas ..                                         | Screens                         |
| Alambre                                            | Wire                                                 | Cabrestantes ..                                          | Windlasses                               | Cruces                                            | Crucibles                       |
| Alambre para tejedear, cortar y enrollarlo)        | Wire Weaving Straightening, Cutting and Coiling Wire | Cabrestantes de vapor, hidráulicos y eléctricos          | Capstans (Steam, Hydraulic and Electric) | Cuellos de cuero                                  | Leathers, Hydraulic, etc        |
| Alambre y cables telegráficos                      | Telegraph Wire and Cables                            | Cadenas de engranaje ..                                  | Chains (Gearing)                         | Caucho (Artículos de)                             | India-rubber Goods              |
| Alambres y cuerdas de alambres                     | Wire and Rope                                        | Cajas ..                                                 | Boxes                                    | Cuerdas motrices                                  | Ropes (Driving)                 |
| Alaciones ..                                       | Makers                                               | Cajas fuertes ..                                         | Safes                                    | Curtidores y Zurzadores de pieles                 | Tanners and Curriers            |
| Aluminio                                           | Aluminum                                             | Cajas Calderas (Compañías aseguradoras de)               | Boiler Insurance Companies               | Descargadoras para hornos de cok                  | Wheel-cutting Machinery         |
| Alumbrado (Aparatos de)                            | Lighting Apparatus (ver Lampen), Electric            | Calderas (Compañías para la inspección de)               | Boiler Inspection Societies              | Descargadoras centrífugas de motores              | Centrifugal Drying Machines     |
| Aluminio y productos de aluminio                   | Aluminum and Aluminum Goods                          | Calderas de vapor ..                                     | Boilers (Steam)                          | Desenganche de motores (Aparatos de) y accesorios | Motor Starters and accessories  |
| Amianto ..                                         | Asbestos Goods, Fittings, etc.                       | Calderas multitubulares (Tapas de agujeros para limpiar) | Boiler Manholes                          | Desincrustadores para calderas                    | Boiler Scraping Appliances      |
| Ancoras ..                                         | Anchors                                              | Calderos de colada ..                                    | Coppersmiths                             | Desintegradores                                   | Disintegrators                  |
| Aparatos auxiliares de marina                      | Marines auxiliaries                                  | Calderos de vía y cruzambios de ola ..                   | Ladles                                   | Desperdicios de algodón                           | Waste (cotton)                  |
| Aparatos de agricultura                            | Agricultural Machinery                               | Cambios de viala ..                                      | Switches and Crossings                   | Destilador (Aparatos de)                          | Distillery Plant                |
| Aparatos de apagar los incendios                   | Fire-extinguishing Apparatus                         | Campañas y aparatos de bucear                            | Diving Apparatus                         | Dibujos, calcos, etc. ..                          | Drawings, Tracings, etc.        |
| Aparatos de blanquear y pintar                     | Whitewashing and Painting Machines                   | Cañones y piezas fragmentadas para los mismos            | Guns and Gun Forgings                    |                                                   |                                 |





| Español.                                                      | Inglés.                                                                                  | Español.                                              | Inglés.                                                       | Español.                                                | Inglés.                                                               |
|---------------------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------------|
| Fabricantes ..                                                | Manufacturers ( <i>ver también</i> Patent Law)                                           | Hornos para templar ..                                | Furnaces (Hardening)                                          | Máquinas elevadoras de grano, hulla, etc.               | Elevators (Grain, Coal, etc.)                                         |
| Fábricas de acero ..                                          | Steel Makers                                                                             | Hulleras ..                                           | Colliery Proprietors                                          | Máquinas excavadoras ..                                 | Excavators                                                            |
| Fábricas de gas (instalación de)                              | Gasworks (Plant for)                                                                     | Hulleras (instalaciones completas de)                 | Colliery Plant                                                | Máquinas fijas ..                                       | Engines (Stationary)                                                  |
| Fábricas de hierro y acero (instalación de)                   | Iron and Steel Works (Plant for)                                                         | Indicadores de nivel de agua ..                       | Gauge Glasses                                                 | Máquinas frigoríficas ..                                | Ice-making Machines                                                   |
| Fábricas de productos químicos (instalación de)               | Chemical Works (Plant for)                                                               | Indicadores de vacío y de presión hidráulica ..       | Gauges (Pressure, Vacuum and Hydraulic)                       | Máquinas-herramientas de toda clase ..                  | Machine Tools ( <i>ver también</i> Tools, Hand and Second-hand Tools) |
| Ferrocarriles (Material fijo de)                              | Permanent Way                                                                            | Indicadores de vapor y motores de gas ..              | Indicators (Steam and Gas Engine)                             | Máquinas hidráulicas ..                                 | Hydraulic Machinery                                                   |
| Ferrocarriles de cre. Railways (Rack)                         |                                                                                          | Inspectores ..                                        | Engineers (Consulting and Inspecting)                         | Máquinas marinas ..                                     | Engines (Marine)                                                      |
| Ferrocarriles (Material rodante de)                           | Railway Rolling Stock ( <i>ver también</i> Carriage, Wagon and Engine-Locomotive)        | Ingenieros consultantes ..                            | Consulting Engineers                                          | Máquinas para comprimir el aire ..                      | Air Compressors                                                       |
| Ferrocarriles y contratistas (Material para)                  | Contractors' Plant                                                                       | Ingenieros electricistas ..                           | Electrical Engineers                                          | Máquinas para romper rocas sumergidas ..                | Rock-breaker (Mechanical under Water)                                 |
| Filtros de aire ..                                            | Filters (Air)                                                                            | Ingenieros mecánicos ..                               | Mechanical Engineers                                          | Máquinas soplantes ..                                   | Engines (Blowing)                                                     |
| Filtros de óleo ..                                            | Oil Filters                                                                              | Instrumentos consultantes ..                          | Consulting Instruments                                        | Máquinas trituradoras ..                                | Grinding Machinery                                                    |
| Filtros para agua de alimentación ..                          | Feed-Water Filters                                                                       | Instrumentos matemáticos ..                           | Mathematical Instruments                                      | Máquinas trituradoras ..                                | Hammer (Power and Drop)                                               |
| Fornallas de caldera ..                                       | Boiler Furnaces                                                                          | Instrumentos telegráficos ..                          | Telegraph Instruments                                         | Martinetes mecánicos ..                                 | Martinetes (Power and Drop)                                           |
| Fotografía, material y aparatos de reproducción de dibujos .. | Photography and Materials and Appliances for Photographic Printing and Copying Processes | Injectores ..                                         | Injectors                                                     | Masa aisladora ..                                       | Insulating Materials                                                  |
| Fraguas ..                                                    | Smiths' Fires                                                                            | Laboratorios químicos ..                              | Chemical Laboratories                                         | Material desincrustante ..                              | Disincrustants                                                        |
| Fraguas (Máquina y útiles para)                               | Forging Machines and Plant                                                               | Ladrillos refractarios ..                             | Refractory Bricks ( <i>ver</i> Refractory Materials)          | Material de desinfección ..                             | Disinfectants                                                         |
| Fraguas portátiles ..                                         | Forges (Portable)                                                                        | Lámparas ..                                           | Lamps ( <i>ver también</i> Electric Lighting and Power Plant) | Materiales refractarios ..                              | Refractory Materials                                                  |
| Frenos eléctricos a solo ..                                   | Brake Solenoids ( <i>ver</i> Solenoids, Brake)                                           | Lámparas incandescentes ..                            | Incandescent Lamps                                            | Mazones ..                                              | Pile Drivers                                                          |
| Frenos hidráulicos ..                                         | Brakes (Water) ( <i>ver</i> Dynamometers)                                                | Lana de Madera (Máquinas de hacerla)                  | Woodworking Machinery                                         | Mecanismo de distribución por válvulas ..               | Valve Gear                                                            |
| Frenos para ferrocarriles ..                                  | Brakes (Railway)                                                                         | Lanchas y Yates ..                                    | Launches and Yachts                                           | Mecanismo del timón ..                                  | Steering Gear                                                         |
| Fresadoras ..                                                 | Milling Machines ( <i>ver</i> Machine Tools)                                             | Lanchones aliados ..                                  | Lighters ( <i>ver</i> Barges)                                 | Mecheros de gas ..                                      | Burners (Gas)                                                         |
| Fresas para la fabricación de ruedas dentadas ..              | Gear Cutters                                                                             | Lapices ..                                            | Pencils ( <i>ver</i> Drawing Instruments)                     | Mecheros para quemar aceite ..                          | Oil Fuel Burners                                                      |
| Fundación de puentes (Campanas para la)                       | Bridge Foundation Cylinders                                                              | Levantadores mecánicos ..                             | Hoisting Machinery ( <i>ver</i> Instruments)                  | Metal ensachado ..                                      | Expanded Metal                                                        |
| Funderías (instalaciones)                                     | Foundry Plant                                                                            | Limas ..                                              | Files ( <i>ver también</i> Cranes)                            | Metal (acero especial) ..                               | Metals (Alloy Steels)                                                 |
| Funderías de tubos y tubería ..                               | Pipe Founders ( <i>ver también</i> Tubes)                                                | Llanas ..                                             | Tyres (Railway)                                               | Metalles antirficción ..                                | Metals (antirflection)                                                |
| Fundiciones de aluminio ..                                    | Castings (Aluminium)                                                                     | Locomóviles ..                                        | Engines (Locomotive)                                          | Metallos, recortes ..                                   | Scrap Metal                                                           |
| Fundiciones de hierro ..                                      | Castings (Iron)                                                                          | Locomotoras (Accesorios de)                           | Locomotives (Mountings for)                                   | Mezcladoras de hormigón ..                              | Concrete Mixers                                                       |
| Fundiciones, metal otro que hierro ..                         | Castings (Non-Ferrous)                                                                   | Lubrificantes para máquinas herramientas ..           | Lubricants for machinery                                      | Mezcladoras mecánicas ..                                | Mixers                                                                |
|                                                               |                                                                                          | Lubrificadores ..                                     | Lubricators                                                   | Mica ..                                                 | Mica Merchants                                                        |
|                                                               |                                                                                          | Lubrificantes para correa ..                          | Belt Lubricant                                                | Micrometros ..                                          | Measuring Machines ( <i>ver</i> Micrometers)                          |
|                                                               |                                                                                          | Madera (Procedimientos de secar y de conservación) .. | Timber drying and preserving                                  | Minas (Máquina de)                                      | Mining Machinery                                                      |
|                                                               |                                                                                          | Madera de construcción ..                             | Timber                                                        | Modelistas ..                                           | Model Makers and Pattern Makers                                       |
|                                                               |                                                                                          | Magnetos ..                                           | Magneto                                                       | Moldeadoras mecánicas ..                                | Moulding Machines                                                     |
|                                                               |                                                                                          | Mandriles, Mangotes ..                                | Chucks                                                        | Molinos de aceite ..                                    | Turnstiles                                                            |
|                                                               |                                                                                          | Mangos de herramientas ..                             | Handles (Tool)                                                | Molinos de pintura, aceite, mortero, etc. ..            | Mills (Paint, Oil, Mortar, etc.)                                      |
|                                                               |                                                                                          |                                                       |                                                               | Molinos y máquinas trituradoras de extracción de oro .. | Gold-crushing and Amalgamating Machinery                              |
|                                                               |                                                                                          |                                                       |                                                               | Motors de bencina ..                                    | Engines (Petrol)                                                      |
|                                                               |                                                                                          |                                                       |                                                               | Motors de gas ..                                        | Engines (Gas)                                                         |
|                                                               |                                                                                          |                                                       |                                                               | Motors de petróleo ..                                   | Engines (Oil)                                                         |





| Español.                 | Ingles.                        | Español.                 | Ingles.                       | Español.                  | Ingles.                                      |
|--------------------------|--------------------------------|--------------------------|-------------------------------|---------------------------|----------------------------------------------|
| Poles de madera ..       | Pulleys (Wood)                 | Señales de ferrocarriles | Railway Signals               | Tratiches y maquinaria    | Sugar Machinery                              |
| Polipastos ..            | Pulley-blocks                  | Separadores de crema ..  | Cream Separators              | de extraer el azucar      | Sleepers (Railway) <i>(ver tambien)</i>      |
| Pólvora y fulminaton     | Gunpowder and Gun-             | Separadores de óleo ..   | Oil Extractors                | Travesas ..               | Permanent Way                                |
| (Máquinas para fabri-    | cotton Machinery               | Separadores magnéticos   | Magnets, etc.                 |                           |                                              |
| carlos)                  |                                | Sierras (Fabricas de)    | Saw-makers                    | Trenes de laminación      | Roller-Mill Machinery                        |
| Postes, Soportes ..      | Poles, Posts and Stand-        | Sirenas y silbato ..     | Sirens and Whistles           | (instalación de)          | <i>(ver Iron and Steel Works, Plant for)</i> |
| Pozos artesanos y varios | Well Wells                     | Sitios para talleres     | Sites (Industrial)            | Coal Pulverising and      |                                              |
| Well Engineers           |                                | Sobrecalentadoras de     | Superheaters                  | drying Plant              |                                              |
| (Ingenieros por)         |                                | vapor                    |                               | Trituración y deseca-     | Carbon                                       |
| Prensas de copiar ..     | Copying Presses                | Soldaduras ..            | Solders                       | ión del                   |                                              |
| Prensas de forjar ..     | Forging Presses                | Solenoides de frenaje    | Solenoids (Brake)             | (aparatos para la)        |                                              |
| Prensas hidráulicas      | Hydraulic Presses              | Soneterías eléctricas    | Electric Bells & Signals      | Tubos de hierro y acero   | Tubes (Iron and Steel)                       |
| Prensas mecánicas        | Presses (Power)                | Soportes ..              | Plummer Blocks                | Tubos de latón y cobre    | <i>(ver Brass &amp; Copper)</i>              |
| Prensas de algodón ..    | Cotton Presses                 | Soportes, especiales con | Disks-shields for Bear-       | Tubos, metal otro que     | Tubes (Non-Ferrous)                          |
| Prensas y máquinas       | Printing Machinery             | protección contra las    | ings                          | hierro                    |                                              |
| imprimir                 |                                | entrada de arena         | Auctioneers (Engineer-        | Tubos de vapor ..         | Steam Pipes                                  |
| Privilegios de invención | Patent Law (Manufac-           | Subastas de instala-     | ing)                          | Tubos soldados a sola-    | Pipes (Larce and Lap-                        |
| —ley Inglesa sobre los   | turers under)                  | ciones mecánicas         |                               | pada                      | <i>(ver tambien)</i>                         |
| —(Fabricantes que        |                                | Tablas de distribución   | Switchboards and Ac-          |                           |                                              |
| pueden ejecutar asun-    |                                | (Agentes de)             | cessories                     | Tuerzas cerradas y re-    | Lock-nuts and Nut-                           |
| tos)                     |                                | accesorios               |                               | quisitos de hierro        | locking Appliances                           |
| Proveedores de maqui-    | Merchants (Machinery,          | Taladradoras ..          | Drilling Machines <i>(ver</i> | Turbinas de vapor y ac-   | Turbines and                                 |
| naria, etc. ..           | etc.)                          | Taladros salomónicos     | Drills (twist)                | cesorios                  | Fittings                                     |
| Proyectorios ..          | Searchlights <i>(ver</i>       | Tapas de agujeros para   | Manhole Doors                 | Untos y oleos ..          | Lubricants and Oils                          |
| Puentes ..               | Bridges <i>(ver tambien</i>    | limpiar calderas         |                               | Vacio (Aparatos de)       | Pumps (Vacuum)                               |
|                          | ing)                           | Tapones fusibles         | Fusible Plugs                 | Vagones, Self-propelled   | <i>(ver tambien)</i> Motor                   |
| Puertas estancas ..      | Doors (Watertight)             | Techados (material       | Roofing Material              | Vagones automóviles ..    | Vehicles)                                    |
| Pulverizadores ..        | Pulverisers                    | Techados metálicos       | Roofs (Iron, Steel, and       | Vagones de ferrocarriles  | Wagon (Railway) Build-                       |
| Puntas de alfiler, etc.  | Nail                           | Tejados                  | Zinc) <i>(ver tambien)</i>    | (Fabricas de)             | ers                                          |
| (Máquinas para fabri-    | carlos)                        | Tejados metálicos        | galvanized                    | Vagones de bscula         | Wagon (Tip)                                  |
| carlos)                  |                                | Teléfonos ..             | Telephones                    | Válvulas de cierre la     | Feed-Check Valves                            |
| Quebrantadoras de pie-   | Stonebreakers <i>(ver tam-</i> | Termómetros ..           | Thermometers <i>(ver</i>      | Válvulas de gas, vapor    | (Combination) Steam,                         |
| dras                     | <i>bien</i> Integrators)       |                          | monometers)                   | agua, etc.                | Valves (Gas, Water, etc.)                    |
| Recalentadores de agua   | Feed-water Heaters             | Tintas ..                | Inks                          | Válvulas de reducción     | Valves (Reducing)                            |
| de alimentación          |                                | Tiro forzado y por suc-  | Forced and Induced            | Válvulas de seguridad ..  | Valves (Safety)                              |
| Reducción de velocidad   | Gearing (speed reducing)       | cion (Aparatos de)       | Draught Apparatus             | Ventiladores ..           | Ventilators                                  |
| (Organos de)             |                                | Tornillos, etc. ..       | Buffers                       | Ventiladores y sopla-     | Fans, Blowers, Ven-                          |
| Reguladores de má-       | Governors (Engine)             | Tornillos de banco ..    | Vices                         | tores                     | tillators and Air Pro-                       |
| quinas a vapor           |                                | Tornillos de trabajo     | Torpedo Boats                 |                           | pellers                                      |
| Remolcadores ..          | Tugboats                       | Transmisiones y ac-      | Shafting and Shaft Fit-       | Vías aéreas ..            | Runways                                      |
| Requisitos de higiene    | Sanitary Appliances            | cesorios                 | tings <i>(ver tambien)</i>    | Vías ligeras y portátiles | Railways (Light and                          |
| Relojos ..               | Watches                        | Transportadores y ele-   | Conveyors                     | Portable)                 | Portable)                                    |
| Retortas de hacer gas .. | Gas-producers                  | vadores                  | Plummer Blocks and            | Vidrios ..                | Glazing                                      |
| Rielos de acero y hierro | Rails (Steel and Iron)         | Tranvías funiculares ..  | Rope tramways                 | Vigas laminadas (Hierro   | Joists Rolled (Iron and                      |
| Rielos de acero y hierro | Road Rollers (Steam)           | Tranvías y material de   | Tramways and Trans-           | acero)                    | Steel)                                       |
| Rodillos compresores de  |                                |                          | way Plant                     | Vulcanito y fibra vul-    | Vulcanite and Vulcan-                        |
| vapor                    |                                |                          |                               | canizada                  | ised Fibre                                   |
| Ruedas de engranaje ..   | Wheels (Gearing)               |                          |                               | "Woodite." para em-       | "Woodite." for Steam,                        |
| Ruedas de engranaje de   | Wheels (Rawhide)               |                          |                               | puquetar y aislar         | Electrical, and Hy-                          |
| curo                     |                                |                          |                               |                           | draulic Packings                             |
| Ruedas hidráulicas       | Water Wheels                   |                          |                               |                           |                                              |
| Ruedas para ferrocarr-   | Wheels (Railway)               |                          |                               |                           |                                              |
| riles                    |                                |                          |                               |                           |                                              |
| Ruedas de fresar y       | Milling Cutters and            |                          |                               |                           |                                              |
| discos para hacerlas     | Cutter Blanks                  |                          |                               |                           |                                              |

**(ITALIAN GLOSSARY). TRADUZIONE DEI NOMI DEGLI ARTICOLI  
sotto i quali sono classificati gli annunzi pubblicati nel "ENGINEERING."**

| Italiano.                                      | Inglese.                                                                      | Italiano.                                            | Inglese.                                                            | Italiano.                      | Inglese.                                          |
|------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------|--------------------------------|---------------------------------------------------|
| Abite da lavoro ..                             | Boiler Suits ( <i>vedi</i> Overalls, etc.)                                    | Apparecchi d'imbianchire e pitturare                 | Whitewashing and Painting Machines                                  | Barili .. ..                   | Drums ( <i>vedi</i> Tanks and Drums)              |
| Accensione elettrica (Organi d')               | Igniters (Electric)                                                           | Apparecchi di cambio di moto (per barche automobili) | Reversing Gears (Motor Boat)                                        | Barili (Macchine per farle)    | Cask-making Machinery                             |
| Accessori delle caldaie e boiler               | Boiler Mountings and Scientific Instruments                                   | Apparecchi d'illuminazione                           | Lighting Apparatus ( <i>vedi</i> Electric Lighting and Power Plant) | Barre (Acciaio e Ferro)        | Bars (Steel and Iron)                             |
| Accessori delle macchine e caldaie             | Engine and Boiler-fittings                                                    | Apparecchi di sicurezza                              | Safety Apparatus                                                    | Barre acciaio pulite ..        | Pile Drivers                                      |
| Acciaierie ..                                  | Steel Makers                                                                  | Apparecchi di sollevamento                           | Hoisting Machinery ( <i>vedi</i> <i>mole</i> Cranes)                | Battipalo .. ..                | Oil fuel Burners                                  |
| Acciaio ..                                     | Steel and Iron Works                                                          | Apparecchi di trafila                                | Wire Drawing Machines                                               | Becchi a combustione d'olio    | Burners (Gas)                                     |
| Acciaio manganese (Pezzi fusi e fucinati)      | Manganese Steel Castings and Forgings                                         | Apparecchi per controllo dei fili, etc.              | Time-Checking Machines                                              | Benzina e i suoi succe-        | Petrol and its Sub-                               |
| Acciaio speciale e rapido                      | Special and High-speed Steel (Tool, Special and Pressed Steel) and Metal Work | Apparecchi per l'entrata e l'uscita dei lavoratori   | Time Registers                                                      | Bianchetti .. ..               | Light Railways ( <i>vedi</i> Portable)            |
| Acciaio e metallo stampato (Pezzi di lavoro)   | Work                                                                          | Apparecchi per depurazione delle acque               | Water-purifying Apparatus                                           | Birrerie (Impianti di)         | Brewery Plant                                     |
| Accoppiamenti degli alberi                     | Couplings (Shaft)                                                             | Apparecchi per estinguere incendi                    | Fire-extinguishing Apparatus                                        | Bottiglie da gas ..            | Bottles (gas) <i>vedi</i> Gas Cylinders           |
| Accoppiamenti per vagoni                       | Couplings (Railway)                                                           | Apparecchi per misurare la torsione                  | Torsion Meters                                                      | Bronzo fosforoso, etc.         | Metals (Phosphor Al-                              |
| Accumulatori elettrici                         | Accumulators (Electric)                                                       | Apparecchi per scaricare i forni a coke              | Coke Rams                                                           | Bucaliere .. ..                | Stamping Machinery                                |
| Aeratori; esauritori ..                        | Exhausters                                                                    | Apparecchi per scaricare le fognie                   | Cesspool Exhausters                                                 | Bussole .. ..                  | Compasses                                         |
| Aeroplani e idroplani ..                       | Aeroplanes & Seaplanes                                                        | Apparecchi per tiraggio forzato e indotto            | Forced and Induced Draught Apparatus                                | Calcoli idraulici ..           | Hydraulic Rams                                    |
| Agenti di brevetti ..                          | Patent Agents                                                                 | Arbitri .. ..                                        | Arbitrators                                                         | Calcestruzzo, lastrele         | Concrete Blocks and                               |
| Agenti di assicurazione ..                     | Insurance Companies                                                           | Argani a vapore, idraulici e elettrici               | Capstans (Steam, Hydraulic and Electric)                            | Caldaie a tubi d'acqua         | Boilers (Water-tube)                              |
| Aggiustamento meccanico                        | Machining for the Trade.                                                      | Argenti .. ..                                        | Capstans                                                            | Caldaie (Autoclavi delle)      | Mahole Doors                                      |
| Alberi a gomito ..                             | Cranks                                                                        | Argoni e chiodi ..                                   | Spikes and Nails                                                    | Caldaie a vapore ..            | Boilers (Steam)                                   |
| Alimentatori automatici ..                     | Stokers (Mechanical)                                                          | Ascensori .. ..                                      | Lifts                                                               | Caloriferi .. ..               | Heating Apparatus                                 |
| Alumino e prodotti d'alluminio                 | Aluminium and Products of Aluminium                                           | Asciugatori di polveri ..                            | Vacuum Dust Plant                                                   | Camini .. ..                   | Chimneys                                          |
| Amianto (Articoli d')                          | Asbestos Goods, Fittings, etc.                                                | Assi .. ..                                           | Axes                                                                | Campanelle e segnali elettrici | Electric Bells and Signals                        |
| Ancore .. ..                                   | Anchor                                                                        | Assi a gomito .. ..                                  | Crank Axles                                                         | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances         |
| Apparecchi a getto di sabbia per pulire ..     | Sand Blast Machines                                                           | Assicurazione per le caldaie (Compagnie d')          | Boiler Insurance Companies                                          | Cancelli girevoli ..           | Turnstiles                                        |
| Apparecchi ausiliari di marina                 | Marine Auxiliaries                                                            | Astucci di compassi ..                               | Drawing Instruments                                                 | Candele d'accensione ..        | Sparkling Plugs ( <i>vedi</i> Igniters, Electric) |
| Apparecchi da palombari                        | Diving Apparatus                                                              | Autoclavi .. ..                                      | Boiler Manholes                                                     | Cannoni e elementi per cannoni | Guns and Gun Forgings                             |
| Apparecchi d'allaggio ..                       | Haulage Plants                                                                | d'uomo nelle caldaie                                 | Motor Cars ( <i>vedi</i> Motor Vehicles)                            | Canotti automobili ..          | Motor Boats                                       |
| Apparecchi d'avviamento dei motori e accessori | Motor Starters and Accessories                                                | Bacini da carenaggio, etc.                           | Docks (graving, etc.)                                               | Cantieri navali ..             | Shipbuilders                                      |
| Apparecchi d'essicca-                          | Drying Apparatus                                                              | Barche e canotti ..                                  | Boats                                                               | Cantieri (Navali per)          | Canteen Equipment                                 |
|                                                |                                                                               |                                                      |                                                                     | Carbone (Elettricità)          | Carbons (Electric)                                |
|                                                |                                                                               |                                                      |                                                                     | Carriole .. ..                 | Barrows                                           |
|                                                |                                                                               |                                                      |                                                                     | Cartucce (Macchine) ..         | Cartridge-Making Machinery                        |

| Italiano.                                     | Inglese.                                                       | Italiano.                                                      | Inglese.                                                           | Italiano.               | Inglese.                                           |
|-----------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------|-------------------------|----------------------------------------------------|
| Catene di trasmissione                        | Chains (Gearing)                                               | Fabbricanti ..                                                 | Manufacturers (vedi Patent Law)                                    | Guarnizioni; giunture   | Packing, Engine and Hydraulic (vedi <i>molte</i> ) |
| Cavendoli pneumatici...                       | Druggers (Suction)                                             | Fabbricazione del gas                                          | Gasworks (Plant for)                                               |                         | Metallic Packing)                                  |
| Cavi catenati ..                              | Dredging Machines                                              | (Impianti per la)                                              |                                                                    |                         | Joining Materials,                                 |
| Cavi da illuminazione                         | Cables (Electric Light, etc.)                                  | Ferro galvanizzato ..                                          | Galvanised Ironwork                                                | Guarnizioni di cuoio .. | Leathers (Hydraulic, etc.)                         |
| Cavi da telegrafia ..                         | Telegraph and Telephone Cables                                 | Ferrovia a dentiera ..                                         | Railways (Rack)                                                    | Guarnizioni metalliche  | Metallic Packing                                   |
| Cavi telefonici ..                            | Electric Cables                                                | Ferrovia e contranti                                           | Railways, and Contrac-                                             |                         | Leathers (Hydraulic, etc.)                         |
| Cavi sottomarini (Apparati per la immersione) | Cable Laying Machinery                                         | (Impianti per)                                                 | Permanent Way                                                      |                         |                                                    |
| Centazione (Prodotti per)                     | Case-hardening Materials                                       | Ferrovia (Materiale mobile per)                                | Railway Rolling Stock (vedi Carriage, Wagon and Engine—Locomotive) |                         |                                                    |
| Cemento (a scorie, Portland, etc.)            | Cement (iron, Portland, etc.)                                  | Ferrovia portatili ..                                          | Portable                                                           |                         |                                                    |
| Cemento ordinario                             | Concrete (Plain and Reinforced)                                | Ferrovia portatili e binari                                    | Railways (Light and Portable)                                      |                         |                                                    |
| Cemento (Impianti per la fabbricazione del)   | Cement-making Plant                                            | Filanda .. e tessitura                                         | Textile Machinery                                                  |                         |                                                    |
| Cerchioni da ruote di ferrovia                | Tyres (Rubber)                                                 | Filettatrici e taglia-tubi                                     | Pipe Screwing and Cutting Machinery                                |                         |                                                    |
| Cerchioni di gomma ..                         | Tyres (Rubber)                                                 | Filettatrici; macchine da filettare                            | Screwing Machines (Cables Wire and Wire Rope-makers)               |                         |                                                    |
| Chavande ..                                   | Hinges                                                         | Fili (Macchine per tessere raddrizzare tagliare e incannare i) | Wire Weaving, Straightening, Cutting and Coiling Machinery         |                         |                                                    |
| Chiodi ..                                     | Bolts, Screws, etc.                                            | Filtri ..                                                      | Filtering Apparatus                                                |                         |                                                    |
| Chiodi ..                                     | Riveting Machines (etc.)                                       | Filtri per aria ..                                             | Filters (Air)                                                      |                         |                                                    |
| Cilindri per la costruzione dei ponti         | Bridge Foundation Cylinders                                    | Filtri per acqua di alimentazione                              | Feed-water Filters                                                 |                         |                                                    |
| Cilindri per laminatoi ..                     | Rolls (Chilled and Grain)                                      | Filtri per olio ..                                             | Oil Filters                                                        |                         |                                                    |
| Cinghie                                       | Belting (Leather, Canvas, etc.)                                | Focolari per caldaie ..                                        | Boiler Furnaces                                                    |                         |                                                    |
| Cinghie (aggraffi d'attacco delle)            | Belt Fasteners (vas, etc.)                                     | Focolari ondulati per caldaie                                  | Corrugated Boiler Furnaces                                         |                         |                                                    |
| Circulatori d'acqua per caldaie               | Hydrokineters and Temperature Equalisers (vedi <i>indire</i> ) | Fonderie ed acciaierie (Impianti di)                           | Iron and Steel Works (Plant for)                                   |                         |                                                    |
| Collettori di polvere ..                      | Dust Collectors (Mills, Factories, Breweries, etc.)            | Fonderie di ghisa ..                                           | Castings (Iron)                                                    |                         |                                                    |
| Colori, vernici, etc.                         | Paints, Varnishes, etc.                                        | Fonderie (Installazioni per)                                   | Foundry Plant                                                      |                         |                                                    |
| Combustibili liquidi ..                       | Liquid Fuel, Oil Fuel                                          | Fornelli, focolari, e accessori                                | Furnaces and Furnace Fittings                                      |                         |                                                    |
| Composizione isolante ..                      | Insulating Materials                                           | Forni a capola ..                                              | Cupolas                                                            |                         |                                                    |
| Composizione per scrostare caldaie            | Boiler Compositions                                            | Forni a gas e acete                                            | Furnaces (Gas and Oil Heated)                                      |                         |                                                    |
| Compressori d'aria ..                         | Air Compressors                                                | Forni di torrefazione ..                                       | Kilns                                                              |                         |                                                    |
| Compressori de gas ad alta pressione          | Gas Compressors (High pressure)                                | Forni per la tempera ..                                        | Furnaces (Hardening)                                               |                         |                                                    |
| Condacitori ..                                | Tanners and Curriers                                           | Forni per la combustione di rifiuti                            | Furnaces for Destroying Refuse (vedi Disinfectors and Destructors) |                         |                                                    |
| Condensatori per evaporazione                 | Condensers (Evaporative)                                       |                                                                |                                                                    |                         |                                                    |
| Condensatori per distillazione                | Condensers (Fresh Water) (vedi Distillation) (Apparatus)       |                                                                |                                                                    |                         |                                                    |



| Italiano.                                                  | Inglese.                                                                         | Italiano.                                              | Inglese.                                       | Italiano.                                            | Inglese.                                                   |
|------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------|------------------------------------------------------|------------------------------------------------------------|
| Macchine e utensili agricoli                               | Agricultural Machinery                                                           | Pale e zappe ..                                        | Shovels and Spades ( <i>vedi</i> Picks, etc.)  | Sabbia per forme                                     | Sand (Moulding)                                            |
| Macchine idrauliche                                        | Hydraulic Machinery                                                              | Pali, palancate e cappe da pali                        | Piles, Sheet Piling and Pile Shoes             | Saldature ..                                         | Solders                                                    |
| Macchine per appretto del tessuto                          | Cloth-Finishing Machinery                                                        | Pali, Sostegni ..                                      | Poles, Posts and Standards                     | Saracinesche ..                                      | Shutters                                                   |
| Macchine per contare                                       | Counting Machinery                                                               | Palizzate diverse                                      | Fencing                                        | Sbarre da graticole ..                               | Fire Bars                                                  |
| Macchine per la fabbricazione delle chiacchiere e dei dadi | Bolt and Nut-making Machinery                                                    | Parauti; tamponi parautini ..                          | Butters                                        | Sbianca (timpanti per)                               | Bleaching Machinery                                        |
| Macchine per formare                                       | Moulding Machines                                                                | Patenti - Legge Inglese                                | Lightning Conductors                           | Scale ..                                             | Ladders and Steps                                          |
| Macchine per formare scogli sotto acqua                    | Rock-drakes (Mechanical Water-lifting)                                           | Patenti - Legge Inglese                                | Pulley-Blocks                                  | Scambi e incroci ..                                  | Switches and Crossings                                     |
| Macchine per la lavorazione del legno                      | Wood-working Machinery                                                           | Perforatrici ..                                        | Rock Drills                                    | Scatole ..                                           | Boxes                                                      |
| Macchine per il trafilato                                  | Mining Machinery                                                                 | Petrolio (Magazzinoaggio)                              | Petrol Storage                                 | Scavatori ..                                         | per sabbie Gold Dredgers                                   |
| Macchine per il trafilato in metallo                       | Iron-drawing Machinery                                                           | Pezzi fucinati (bronzo, ottone, rame, etc.)            | Forgings (Bronze, Brass, Copper, etc.)         | Scavatori ..                                         | Excavators                                                 |
| Macchine per il trattamento dei minerali                   | Mineral-processing Machinery                                                     | Pezzi fucinati (ferro e acciaio)                       | Forgings (Iron and Steel)                      | Scaluppe e yachts ..                                 | Launches and Yachts                                        |
| Macchine per seccare e modellare                           | Drying and Shaping Machines ( <i>vedi</i> Machine Tools)                         | Pezzi fucinati, metal                                  | Forgings (Non-Ferrous)                         | Scudi per nomi ..                                    | Cream Separators                                           |
| Macchine per tagliare ingranaggi                           | Wheel-cutting Machinery                                                          | Pezzi stampati (bronzo, ottone, rame, alluminio, etc.) | Stampings (Bronze, Brass, Copper, etc.)        | Secchie o cucchiaini automatici                      | Name Plates                                                |
| Macchine refrigeranti                                      | Refrigerating Machinery                                                          | Plafondi ..                                            | Planing Machines ( <i>vedi</i> Machine Tools)  | Sedi delle valvole                                   | Reseating Machinery                                        |
| Macchine soffianti                                         | Engines (Blowing)                                                                | Piastre di corazatura ..                               | Armour-plates                                  | (Presatrici per staccare le)                         | chines.                                                    |
| Macchine utensili diversi                                  | Machine Tools                                                                    | Piattforme ..                                          | Turntables                                     | Seghe (Fabbriche delle)                              | Saw-Makers                                                 |
| Macchine utensili per la costruzione dei cannoni           | Tools Hand and Small Tools                                                       | Platte di ferro                                        | Flat-iron                                      | Seghe meccaniche ..                                  | Saw Mill Machinery                                         |
| Macchine utensili per la costruzione dei cannoni           | Gun-making Machinery                                                             | Piattone di ferro                                      | Flat-iron                                      | Segnali per ferrovie ..                              | Railway Signals                                            |
| Magli a vapore ..                                          | Hammers (Steam) ( <i>vedi</i> Steam Hammers)                                     | Pignoni di cuoio                                       | Pinions of leather                             | Separatori di vapore ..                              | Steam Separators                                           |
| Magli meccanici                                            | Hammers (Power & Drop)                                                           | Piomometri e termometri                                | Pyrometers and thermometers                    | Sirene e fischietti ..                               | Sirens and Whistles                                        |
| Magneti                                                    | Magnets                                                                          | Polvere e fulminazione (Macchine per fabbricare)       | Powder and fulminant (Machine for fabricating) | Situazioni per officine ..                           | Sites (Industrial)                                         |
| Magneti di sospensione                                     | Magnets (Lifting)                                                                | Polverizzare (Macchine per)                            | Pulverisers                                    | Smerigliatrici ..                                    | Emery-grinding Machinery                                   |
| Manichette                                                 | Hose Pipes                                                                       | Pompe centrifughe ..                                   | Centrifugal Pumps                              | Smeriglio, tela smerigli-Emery and Emery Cloth, etc. | etc.                                                       |
| Manifidi da utensili                                       | Handles (tool)                                                                   | Pompe d'alimentazione (Piccoli cavalletti)             | Feeding Pumps (Small jacks)                    | Sminuziatrici ..                                     | Crushing Machinery ( <i>vedi</i> Disintegrators and Mills) |
| Manometri ..                                               | Gauges (Pressure)                                                                | Pompe d'aria ..                                        | Air Pumps                                      | Solenoidi di frenaggio                               | Solenoids (Brake)                                          |
| Manovelle da vapore ..                                     | Cranks (Steam)                                                                   | Pompe del vuoto ..                                     | Vacuum Pumps                                   | Sopporti a palle e a rulli                           | Bearings (Ball & Roller)                                   |
| Materiali e materiale isolante per caldaie                 | Composition for Covering Boilers, etc. ( <i>vedi</i> Non-conducting Composition) | Pompe e macchina elettrolitica ..                      | Electrolytic Pumps and Machinery               | Sopporti a rulli ..                                  | Roller Bearings ( <i>vedi</i> Bearings, Roller)            |
| Materiali stampati                                         | Drop Forgings ( <i>vedi</i> Forgings, Drop)                                      | Pompe a vapore ..                                      | Steam Pumps                                    | Sopporti ordinari ..                                 | Plummer Blocks                                             |
| Materie arrottante                                         | Abrasive                                                                         | Pompe per le Colonie                                   | Colonial Pumps                                 | Spianatrici stradali ..                              | Road Rollers (Steam)                                       |
| Materie isolanti                                           | Non-conducting Positions                                                         | Pompe turbine ..                                       | Turbine Pumps                                  | Spine ..                                             | Pins (Taper)                                               |
| Materie refrattari ..                                      | Refractory Materials                                                             | Ponti ..                                               | Bridges ( <i>vedi</i> Structural Engineering)  | Stantuffi e anelli di pistoni                        | Pistons and Piston-rings                                   |
|                                                            |                                                                                  | Porte stagne ..                                        | Doors (Watertight)                             | Strumenti di matematica                              | Mathematical Instruments                                   |
|                                                            |                                                                                  |                                                        |                                                | Strumenti per pesare                                 | Weighing Machines                                          |
|                                                            |                                                                                  |                                                        |                                                | Strumenti per telegrafo                              | Telegraph Instruments                                      |
|                                                            |                                                                                  |                                                        |                                                | Strutture ..                                         | Structural Engineering                                     |
|                                                            |                                                                                  |                                                        |                                                | Supercalcolatori ..                                  | Superheaters                                               |
|                                                            |                                                                                  |                                                        |                                                | Tappi fusibili ..                                    | Fusible Plugs                                              |
|                                                            |                                                                                  |                                                        |                                                | Tela meccanica per tessitura                         | Textile machinery                                          |
|                                                            |                                                                                  |                                                        |                                                | Termometri ..                                        | Thermometers                                               |
|                                                            |                                                                                  |                                                        |                                                | Termometri ..                                        | Thermometers and Thermometers                              |



|                                                   |                                                     |                                                                 |                                                         |                                                                            |
|---------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|
| <b>Matite ..</b>                                  | .. Pencils ( <i>vedi</i> Drawing Instruments)       | <b>Pozzi (Ingegneri per Well Engineers)</b>                     | <b>Pozzi (Ingegneri per Well Engineers)</b>             | <b>Tetti (materie per) Roofing Material</b>                                |
| <b>Mattone (Impianti per la fabbricazione di)</b> | .. Bricks ( <i>vedi</i> Re-fractory Materials)      | .. Presses per cotone                                           | .. Tube Wells                                           | <b>Tetti, di ferro acciaio e Zinc (<i>vedi</i> Structural Engineering)</b> |
| <b>Mattone refrattari ..</b>                      | .. Fire Bricks ( <i>vedi</i> Re-fractory Materials) | .. Presses idrauliche                                           | .. Cotton Presses                                       | <b>Timoni (Apparati per la manovra a distanza dei)</b>                     |
| <b>Mattone tegole (Macchine per fabbricare i)</b> | .. Brick and Tile-making Machinery                  | .. Presses meccaniche                                           | .. Presses (Hydraulic)                                  | <b>Torchi per olio</b>                                                     |
| <b>Mecanismo di distribuzione per valvole</b>     | .. Valve Gear                                       | .. Prodotti chimici (Impianti per la fabbricazione dei)         | .. Chemical Works (Plant for)                           | <b>Torchi idraulici</b>                                                    |
| <b>Mecchie a spirale ..</b>                       | .. Drills (Twist)                                   | .. Pulegge di ghisa                                             | .. Searchlights                                         | <b>Torni ..</b>                                                            |
| <b>Mercanti di macchine, etc.</b>                 | .. Merchants (Machinery, etc.)                      | .. Pulegge di legno                                             | .. Pulleys (Wood)                                       | <b>Torpediniere ..</b>                                                     |
| <b>Mercanti di ferro ..</b>                       | .. Iron Merchants                                   | .. Pulegge in ferro e acciaio                                   | .. Pulleys (Wrought-iron and Steel)                     | <b>Tramvie e materiale per Tramways and Tramway Plant</b>                  |
| <b>Mescolatrici per calce-truzzo</b>              | .. Concrete Mixers                                  | .. Punzonatrici e cesole meccaniche                             | .. Punching and Shearing Machines                       | <b>Trapani ..</b>                                                          |
| <b>Metalli (Acciaio speciale)</b>                 | .. Metals (Alloy Steels)                            | .. Quadri e apparecchi di distribuzione                         | .. Switchboards and Accessories                         | <b>Trasmettitori d'ordini ..</b>                                           |
| <b>Metalli Antirifione ..</b>                     | .. Metals (Antirifione)                             | .. Raffreddamento ad acqua (Torri e apparecchi per il)          | .. Water - cooling Plant ( <i>vedi</i> Cooling Towers)  | <b>Trasmissioni ad ingranaggio, alberi, etc.</b>                           |
| <b>Micrometri ..</b>                              | .. Measuring Machines                               | .. Rame in lingotti, verghe e lastre                            | .. Copper Ingots, Bars and Sheets                       | <b>Trasmissioni, accessori e alberi</b>                                    |
| <b>Miniere di carbone (Impianti per)</b>          | .. Colliery Proprietors                             | .. Ramieri ..                                                   | .. Coppersmiths                                         | <b>Trasportatori ..</b>                                                    |
| <b>Misuratori ..</b>                              | .. Colliery Plant                                   | .. Regolatori delle macchine                                    | .. Governors (Engine)                                   | <b>Trasportatori, caricatori e scaricatori</b>                             |
| <b>Modeliste ..</b>                               | .. Model Makers                                     | .. Riduzione di velocità (Organi di)                            | .. Gearing (speed reducing)                             | <b>Traverse per ferrovie ..</b>                                            |
| <b>Mole da affilare ..</b>                        | .. Grindstones                                      | .. Rimorchiatori ..                                             | .. Tugboats                                             | <b>Travi ..</b>                                                            |
| <b>Molini per farina ..</b>                       | .. Flour Machinery                                  | .. Riscaldatori ..                                              | .. Feed-water Heaters                                   | <b>Travi laminati di ferro e acciaio</b>                                   |
| <b>Molini da macinare ..</b>                      | .. Flour, Corn and Rice                             | .. Riso (Impianti per sguocciare e lavorare il)                 | .. Rice-dressing Machinery                              | <b>Triturazione e essiccazione di carbone</b>                              |
| <b>Molli meccanici (Fabbrina grano, riso)</b>     | .. Milling Machinery                                | .. Ritagli di cotone                                            | .. Waste (Cotton)                                       | <b>Tubi (Impianti per)</b>                                                 |
| <b>Molli per colori, oli, mortero, etc.</b>       | .. Mills (Paint, Oil, Mortar, etc.)                 | .. Rivestimento galvanico, verniciatura, bronzatura             | .. Electroplating, Lacquering, Bronzing                 | <b>Tubi di ferro e di acciaio</b>                                          |
| <b>Molle ..</b>                                   | .. Springs                                          | .. Rivestimento del ferro (Valvole da)                          | .. Brake and Clutch                                     | <b>Tubi di ghisa (Fonderie)</b>                                            |
| <b>Molle ad elica (Macchine per farle)</b>        | .. Springs and Coils (Machinery for Making)         | .. Robinetti (Valvole da gas, vapore, acqua, etc.)              | .. Cocks ( <i>vedi</i> Valves, Gas, Steam, Water, etc.) | <b>Tubi d'ottone e di rame</b>                                             |
| <b>Moneta (Macchine per)</b>                      | .. Mint Machinery                                   | .. Robinetti per acqua di condensazione                         | .. Steam Traps                                          | <b>Tubi grandi in lamiera saldati a sovrapposizione</b>                    |
| <b>Morse ..</b>                                   | .. Vices                                            | .. Rompipette ..                                                | .. Stone-breakers ( <i>vedi</i> Disintegrators)         | <b>Tubi indicatori di livello</b>                                          |
| <b>Motori ad aria calda</b>                       | .. Engines (Air)                                    | .. Rotale di acciaio e di ferro                                 | .. Rails (Steel and Iron)                               | <b>Tubi (Macchine per fabbricare)</b>                                      |
| <b>Motori a benzina ..</b>                        | .. Engines (Petrol)                                 | .. Rottami, ritagli Ruggine (Prodotto per protezione contra la) | .. Scrap Metal Rust Preventive                          | <b>Tubi metallo altro que</b>                                              |
| <b>Motori a gas ..</b>                            | .. Gas Engines ( <i>vedi</i> Engines, Gas)          | .. Ruote per ferrovie                                           | .. Railway Wheels ( <i>vedi</i> Wheels, Railway)        | <b>Tubi (Non-Ferrous)</b>                                                  |
| <b>Motori a petrolio ..</b>                       | .. Engines (Oil)                                    | .. Ruote d'ingranaggio ..                                       | .. Gearing ( <i>vedi</i> Wheels, Geared)                | <b>Turbine</b>                                                             |
| <b>Motori elettrici ..</b>                        | .. Electric Motors                                  |                                                                 |                                                         | <b>Turbine ad acqua</b>                                                    |
| <b>Munizioni ..</b>                               | .. Ammunition                                       |                                                                 |                                                         | <b>Turbine a vapore e a c-</b>                                             |
| <b>Navigazione marittima</b>                      | .. Shipping                                         |                                                                 |                                                         | <b>Utensili a mano</b>                                                     |
| <b>Oli e grassi lubrificanti</b>                  | .. Oils ( <i>vedi</i> Lubricants)                   |                                                                 |                                                         |                                                                            |
| <b>Oli e materie lubrificanti</b>                 | .. Lubricants and Oils                              |                                                                 |                                                         |                                                                            |
| <b>Orologi ..</b>                                 | .. Watches                                          |                                                                 |                                                         |                                                                            |
| <b>Ottone (Fonderie e pezzi avorati)</b>          | .. Brass Founders and Brass Finishers               |                                                                 |                                                         |                                                                            |

| Italiano.                  | Inglese.                                         | Italiano.                | Inglese.                                  | Italiano.                     | Inglese.                      |
|----------------------------|--------------------------------------------------|--------------------------|-------------------------------------------|-------------------------------|-------------------------------|
| Utensili elettrici ..      | Electric Tools                                   | Vasche; recipienti: ser- | Tanks                                     | Vie aeree ..                  | Runways                       |
| Utensili pneumatici ..     | Tools (Pneumatic) ( <i>vedi</i> Pneumatic Tools) | batoi                    | Pottery and Encaustic Tile Machinery      | Viti, etc. ..                 | Screws, etc.                  |
| Utensili usati ..          | Second-hand Tools                                | Vasellame di terra e te- | Auctioneers (Engineer-                    | Vulcanite e fibra vul-        | Vulcanite and                 |
| Vagonetti scaricatori ..   | Wagons (Tip)                                     | goite a colori (Mac-     | ing) Fans, Ventilators and Air Propellers | canizzata ..                  | canised Fibre                 |
| Vagoni (Costruttori di)    | Wagon (Railway) Build-                           | chine per)               | Fans and Blowers                          | Wagoni automotori ..          | Wagons, Self-Propelled        |
| Valvole d'arresto d'ali-   | Feed-check Valves (Com-                          | Venditori all'incanto di | Glazing                                   | "Woodite" (Materiale          | ( <i>vedi</i> Carriage, Wagon |
| mentazione ..              | bination)                                        | macchine                 | Buildings (Railway)                       | per guarnizioni)              | and Engine—Loco-              |
| Valvole da gas, vapore,    | Valves (Gas, Steam,                              | Ventilatori ..           | Buildings                                 | Yachts ..                     | motive)                       |
| acqua, etc.) ..            | Water, etc.)                                     | Ventilatori e macchine   | Glazing                                   | Yachts ( <i>vedi</i> Launches | and Yachts)                   |
| Valvole di riduzione ..    | Reducing Valves                                  | soffianti                | Buildings                                 |                               |                               |
| Valvole di sicurezza ..    | Valves (Safety)                                  | Vetture (Cos-            | Buildings                                 |                               |                               |
| Valvole regolatrici d'ali- | Feed-water Regulators                            | truttori di)             | Buildings                                 |                               |                               |
| mentazione ..              | Feed-water Regulators                            | Vetture ferroviarie      | Buildings                                 |                               |                               |
| Vaporizzatori ..           | Carburettors and Va-                             | (Guarnizioni delle)      | Buildings                                 |                               |                               |
|                            | pourisers                                        |                          | Buildings                                 |                               |                               |



# PUBLICATIONS

## OF THE

### BRITISH ENGINEERING STANDARDS ASSOCIATION.

(Incorporated 1918.)

FORMED IN 1901 AS THE ENGINEERING STANDARDS COMMITTEE

BY

THE INSTITUTION OF CIVIL ENGINEERS. THE INSTITUTION OF NAVAL ARCHITECTS.  
THE INSTITUTION OF MECHANICAL ENGINEERS. THE IRON AND STEEL INSTITUTE  
THE INSTITUTION OF ELECTRICAL ENGINEERS.

### PRICE LIST REVISED, JUNE, 1920.

*(This cancels all previous lists.)*

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*The following Reports having been withdrawn are now out of print :—*

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| 3-1903        | Influence of Gauge Length and Section of Test Bar on the Percentage of Elongation, Report on, by Professor W. C. UNWIN, F.R.S. .. .. | 1/-            |
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# “ENGINEERING” DIRECTORY.

No. 68.—MAY, 1921.

COMPILED AND CLASSIFIED  
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For the use of our Foreign Friends we have now added a Glossary of the Equivalents in French, Spanish, and Italian, of the headings under which articles advertised in "ENGINEERING" are classified in this Directory.

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For the use and assistance of our many foreign friends there will be found on the following pages GLOSSARIES in FRENCH (page 101), SPANISH (page 107), and ITALIAN (page 113), of the HEADINGS under which the articles advertised in "ENGINEERING" are Classified in this Directory.

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Dans le but de faciliter les recherches à nos nombreux lecteurs de l'Etranger, nous donnons la TRADUCTION en FRANÇAIS (page 101), ESPAGNOL (page 107), et ITALIEN (page 113), des EN-TÊTE sous lesquels sont classées dans la présente brochure, les annonces publiées dans "ENGINEERING."

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Para servicio de nuestros numerosos lectores en los varios paises, damos una TRADUCCIÓN en FRANCES (página 101), ESPAÑOL (página 107), é ITALIANO (página 113), de los TITULOS con que estan clasificados en este librito los anuncios que publica "ENGINEERING."

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Onde facilitare la ricerca ai nostri lettori stranieri, abbiamo aggiunto a questo opuscolo la TRADUZIONE FRANCESE (página 101), SPAGNUOLA (página 107), E ITALIANA (página 113), dei NOMI DEGLI ARTICOLI sotto i quali sono classificati gli annunci pubblicati nel "ENGINEERING."

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Beardmore W., & Co., Ltd. Glasgow

Brown John, & Co., Ltd. .. Sheffield

Cammell Laird & Co., Ltd. Sheffield

Vickers Limited .. .. Sheffield

**Armoured Concrete.—(See Concrete, Reinforced.)****Asbestos Goods, &c.—(See also Jointing Materials, and Packings—Engine and Hydraulic.)**

Bell's United Asbestos Co., Ltd. .. 59½, Southwark St., S.E.

Billington & Newton, Ltd. Longport, Staffordshire

Cape Asbestos Co., Ltd. .. 23, King St., E.C. 2.

Cresswells' Ltd. .. .. Wellington Mills, Bradford

Turner Bros. Asbestos Co., Ltd. .. .. Rochdale

**Ash Ejectors.**

Carron Co. .. .. Carron, Stirlingshire

Trewent F. J., & Proctor, Ltd. .. .. 43, Billiter Buildings, E.C.

**Astronomical Instruments.—(See Instruments—Electrical, Surveying, &c.)****Auctioneers, Valuers and Surveyors (Engineering).**

Butcher Henry, & Co. .. 63-64, Chancery Lane, W.C. 2

Dixon, Geo. N., & Co. .. 41, Castle St., Liverpool

Fuller, Horsey, Sons and Casell .. 11, Billiter Square, B.C.

Kirk W., Price & Co. .. 46 Watling St., E.C.; and Albert Sq., Manchester

**Axles.**

American Steel Export Co. Woolworth Building, New York, U.S.A.

Beardmore W., & Co., Ltd. Glasgow

Bessemer Henry, & Co., Ltd. Sheffield

Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham

Brown John, & Co., Ltd. .. Sheffield

Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield

Glasgow Railway Engineering Co., Ltd. .. Govan, Glasgow

Hadfields Limited .. .. Hecla Works, Sheffield

Hurst, Nelson & Co., Ltd. .. Motherwell, N.B.

Scottish Stamping & Engineering Co., Ltd. .. Ayr, Scotland

Vickers Limited .. .. Sheffield

**Barges and Lighters (Iron and Steel).—(See also Launches and Yachts, Motor Boats, and Shipbuilders.)**

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow

Chalmers Wm. & Co., Ltd. Rutherglen, Scotland

Thornycroft J. I., & Co., Ltd. Southampton

Vosper & Co., Ltd. .. Broad St., Portsmouth

Weri Conrad .. .. Haarlem, Holland

White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight

**Barrows.**

Ash, Joseph & Son .. Rea St. South, Birmingham

Pollock, Macnab & Highgate .. Shettleston, Glasgow

**Bars (Bright Steel).**

British Rolling Mills, Ltd. Cliveland St., Birmingham

Dunkerley C. C. & Co., Ltd. Store St., Manchester

Govan Shafting & Engineering Co., Ltd. Govan, Glasgow

Halesowen Steel Co., Ltd. Halesowen, nr. Birmingham

Hampton & Dean .. .. Clifton Works, Wednesbury

Lee Arthur, & Sons, Ltd. Sheffield

Wesson W., & Co., Ltd. .. Moxley, Wednesbury

Winn, W. Martin, & Co. .. Station Works, Darlaston

**Bars (Steel and Iron).**

Adams & Benson, Ltd. .. Albion, West Bromwich

American Car & Foundry Co. .. 165, Broadway, New York, U.S.A.

American Steel Export Co. Woolworth Building, New York, U.S.A.

Beardmore Wm., & Co., Ltd. Glasgow

Bessemer Henry, & Co., Ltd. Sheffield

British Rolling Mills, Ltd. Cliveland St., Birmingham

Briton Ferry Steel Co., Ltd. Briton Ferry, South Wales.

Butterley Co., Ltd. .. Derby

Columbia Steel & Engineering Co., Ltd. .. Bank Chambers, 329, High Holborn, W.C. 1

Colville David, & Sons, Ltd. Motherwell, near Glasgow

Dunkerley C. C. & Co., Ltd. Store St., Manchester.

Dunlop & Ranken, Ltd. .. 47, Water Lane, Leeds

Fairley James, & Sons, Ltd. Birmingham & Sheffield.

Glasgow Iron & Steel Co., Ltd. Wishaw

Govan Shafting & Engineering Co., Ltd. Govan, Glasgow

Hadfields Limited .. .. Hecla Works, Sheffield

Halesowen Steel Co., Ltd. Halesowen, nr. Birmingham

Lee Arthur, & Sons, Ltd. .. Sheffield

Partington Steel & Iron Co., Ltd. Irlam, Manchester

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow

Stringer Brothers .. .. West Bromwich

Stringer & Co. (Sheffield), Ltd. .. Sheffield

Wesson W., & Co., Ltd. .. Moxley, Wednesbury

Winn, W. Martin, & Co. .. Station Works, Darlaston

**Bearings (Ball and Roller).—(See also Plummer Blocks.)**

Broom & Wade, Ltd. .. High Wycombe

Crofts (Engineers), Ltd. .. Empire Works, Bradford



**Bearings (Ball and Roller)—Continued.**

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Empire Roller Bearings Co., Ltd. | 13, Victoria St., S.W.1                   |
| Handley Page Limited             | Croydon, Surrey                           |
| Hoffmann Manufacturing Co., Ltd. | Chelmsford                                |
| Hyatt, Ltd.                      | 4, Thurlow Place, South Kensington, S.W.7 |
| Northern Ball Bearings, Ltd.     | 115, Great Portland St., W.1              |
| Ransome A., & Co., Ltd.          | Stanley Works, Newark-on-Trent            |
| Rudge-Whitworth, Ltd.            | Sparkhill, Birmingham                     |
| Skefko Ball Bearing Co., Ltd.    | Skefko Works, Luton, Beds.                |

**Bearings (Thrust and Footstep).**

|                          |                                          |
|--------------------------|------------------------------------------|
| Broom & Wade, Ltd.       | High Wycombe                             |
| Crofts (Engineers), Ltd. | Empire Works, Bradford                   |
| Micell Bearings, Ltd.    | 3, Central Buildings, Westminster, S.W.1 |
| Vickers Ltd.             | Vickers House, Broadway, S.W.1           |

**Belt Fasteners.**

|                          |                              |
|--------------------------|------------------------------|
| Stone J. B., & Co., Ltd. | 135, Finsbury Pavement, E.C. |
| Thomas & Bishop          | 37, Tabernacle St., E.C.     |

**Belt Treatment.**

|                 |                          |
|-----------------|--------------------------|
| Thomas & Bishop | 37, Tabernacle St., E.C. |
|-----------------|--------------------------|

**Bolting (Leather, Canvas, &c.).**

|                                                       |                               |
|-------------------------------------------------------|-------------------------------|
| Balderston & Co., Ltd.                                | 201, St. Vincent St., Glasgow |
| Buck & Hickman, Ltd.                                  | 2 & 4, Whitechapel Rd., E.1   |
| Cole Henry A., & Co., Ltd.                            | Coronet Works, Liverpool      |
| Cooke E. J.                                           | Blackfriars, Manchester       |
| Dawson James & Son, Ltd.                              | Lincoln                       |
| Dick R. & J., Ltd.                                    | Greenhead Works, Glasgow      |
| Gutta Percha & Rubber, Ltd.                           | Toronto, Canada               |
| Hendry James                                          | Brigdeton, Glasgow            |
| India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. | Silvertown, B.                |
| Jardine J.                                            | Deering St., Nottingham       |
| Lewis & Tylor, Ltd.                                   | Cardiff, England              |
| Reddaway F., & Co., Ltd.                              | (Camel Brand)                 |
| Tullis John, & Son, Ltd.                              | Pendleton, Manchester         |
| Walker Wm., & Sons, Ltd.                              | Bolton, Lancs.                |
| Webb & Son (Combs), Ltd.                              | Stowmarket                    |
| Willcox W. H., & Co., Ltd.                            | 32-38, Southwark St., S.E.    |

**Bleaching Machinery.**

|                        |                            |
|------------------------|----------------------------|
| Edmeston A., & Sons    | Patricroft, nr. Manchester |
| Entwistle & Gass, Ltd. | Bolton                     |

**Blowers.—(See Engines—Blowing, Fans and Blowers, and Ventilators.)****Boats.—(See Barges, &c., Motor Boats, and Ship-builders.)****Boiler Circulators.****Boiler Compositions.—(See Disinfectants.)****Boiler Coverings.—(See Non-conducting Compositions.)****Boiler Furnaces.**

|                                    |                         |
|------------------------------------|-------------------------|
| Bennis Ed., & Co., Ltd.            | Bolton                  |
| Brown John, & Co., Ltd.            | Sheffield               |
| Donkin Co., Ltd. (The Bryan)       | Chesterfield            |
| Dowson & Mason Gas Plant Co., Ltd. | Levenshulme, Manchester |
| Leeds Forge Co., Ltd.              | Leeds                   |

**Boiler Inspection and Insurance Societies.**

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| London & Lancashire Fire Insurance Co., Ltd.  | 155, Leadenhall St., E.C.        |
| Manchester Steam Users' Association           | 9, Mount St., Manchester         |
| National Boiler & General Insurance Co., Ltd. | St. Mary's Parsonage, Manchester |

**Boiler Manholes.**

|                            |                        |
|----------------------------|------------------------|
| Barr, Thomson & Co., Ltd.  | Kilmarnock, Scotland   |
| M'Neil C., Ltd.            | Glasgow                |
| Piggott Thos., & Co., Ltd. | Springhill, Birmingham |

**Boiler Mountings.**

|                                               |                                  |
|-----------------------------------------------|----------------------------------|
| Bailey Sir W.H., & Co., Ltd.                  | Salford, Manchester              |
| Bell's United Asbestos Co., Ltd.              | 59½ Southwark St., S.E.          |
| Billington & Newton, Ltd.                     | Lonsport, Staffordshire          |
| Birkett T. M., & Sons, Ltd.                   | Hanley, Staffordshire            |
| Blakeborough J., & Sons, Ltd.                 | Brighouse, Yorks                 |
| Brundrit Joseph                               | 14, Water St., Liverpool         |
| Cockburns Limited                             | Cardonald, Glasgow               |
| Crosby Valve & Engineering Co., Ltd.          | 41 & 42, Foley St., W.1          |
| France & Morgan                               | Govan, Glasgow                   |
| Green & Boulding, Ltd.                        | 28, New Bridge St., E.C.         |
| Hopkinson J., & Co., Ltd.                     | Huddersfield                     |
| Howden James, & Co., Ltd.                     | Sootland St., Glasgow            |
| Lunken Company, Ltd.                          | 35, Great Dover St., S.E.        |
| National Boiler & General Insurance Co., Ltd. | St. Mary's Parsonage, Manchester |
| Piggott Thos., & Co., Ltd.                    | Springhill, Birmingham           |
| Royles Limited                                | Irlam, near Manchester           |
| Russell John, & Co., Ltd.                     | Birmingham                       |
| Smith Sydney, & Sons (Nottingham), Ltd.       | Nottingham                       |
| Thornycroft J. I., & Co., Ltd.                | Southampton                      |
| Turnbull Alex., & Co., Ltd.                   | Bishopbriggs, Glasgow            |
| United Brassfounders & Engineers, Ltd.        | Cornbrook, Manchester            |

**Boiler Plates.—(See Plates, Iron & Steel.)****Boiler Sealing Appliances.**

|               |                              |
|---------------|------------------------------|
| Gilman, Frank | 9, Westfield Rd., Birmingham |
|---------------|------------------------------|

**Boiler Suits.—(See Overalls, &c.)****Boilers (Steam).—(See also Boilers—Water-tube.)**

|                             |                                      |
|-----------------------------|--------------------------------------|
| Abbott & Co. (Newark), Ltd. | Newark-on-Trent                      |
| Adamson Daniel, & Co., Ltd. | Dukinfield                           |
| American Steel Export Co.   | Woolworth Building, New York, U.S.A. |
| Bellamy John, Ltd.          | Millwall, B.                         |
| Bodley Bros. & Co.          | Breter                               |
| Burmeister & Wain, Ltd.     | Copenhagen, Denmark                  |
| Chaplin, Alex., & Co.       | Govan, Glasgow                       |
| Clarke, Chapman & Co., Ltd. | Gatehead-on-Tyne                     |

**Boilers (Steam)—Continued.**

Clayton Son & Co., Ltd. . . . Hunslet, Leeds  
 Cochran & Co., Annan, Ltd. . . . Annan, N.B.  
 Coltham H. & Sons . . . Loughborough.  
 Coltham Walter W. & Co., Ltd. . . . Central Boiler Works, Loughborough  
 Cradley Boiler Co., Ltd. . . . Cradley Heath, Stafford  
 Craig A. F. & Co., Ltd. . . . Paisley [shire.  
 Dalglish A. & W. . . . Pollokshaws, Glasgow  
 Danks H. & T. (Netherton), Ltd. . . . Netherton, Dudley  
 Davey, Paxman & Co., Ltd. . . . Colchester  
 Davy Brothers, Ltd. . . . Sheffield  
 Day, Summers & Co., Ltd. . . . Southampton  
 Escher, Wyss & Co. . . . 20, Grosvenor Gardens, S.W.1  
 Farrar Boiler Works, Ltd. . . . Lincoln  
 Forth Shipbuilding & Engineering Co., Ltd. . . . Govan, Glasgow  
 Fowler J. & Co. (Leeds) Ltd. . . . Leeds  
 Galloways Ltd. . . . Manchester  
 Garrett R. & Sons, Ltd. . . . Leiston Works, Suffolk  
 Grantham Boiler & Crank Co., Ltd. . . . Grantham  
 Hawthorn R. & W., Leslie & Co., Ltd. . . . Newcastle-on-Tyne  
 Hindley B. S. & Sons . . . 11, Queen Victoria St., B.C.  
 Holdsworth & Sons, Ltd. . . . Leeds Road, Bradford  
 Howden Overseas Trading Co., Ltd. . . . 105, St. Vincent St., Glasgow  
 Hudson Thomas, Ltd. . . . Coatbridge, N.B.  
 McKie & Baxter . . . Govan, Glasgow  
 Manlove, Elliott & Co., Ltd. . . . Nottingham  
 Marshall, Sons & Co., Ltd. . . . Gainsborough  
 Merryweather & Sons, Ltd. . . . 63, Long Acre, W.C.  
 Morris, Herbert, Ltd. . . . Loughborough, England  
 Mumford A. G., Ltd. . . . Colchester  
 North-Eastern Marine Engineering Co., Ltd. . . . Northumberland Works, Walkersend-on-Tyne  
 Penman & Co., Ltd. . . . Strathclyde St., Glasgow  
 Piggott Thos. & Co., Ltd. . . . Birmingham  
 Plenty & Sons, Ltd. . . . Newbury, Berks.  
 Ransomes, Sims & Jefferies, Ltd. . . . Ipswich  
 Robey & Co., Ltd. . . . Lincoln  
 Ross & Duncan . . . Glasgow  
 Rowan David, & Co. . . . 231, Elliott St., Glasgow  
 Ruston & Hornsby, Ltd. . . . Sheaf Ironworks, Lincoln  
 Smuders A. F. . . . Schiedam, Holland  
 Spencer-Bonecourt, Ltd. . . . Parliament Mansions, Victoria St., S.W.1  
 Sudron, Thomas & Co., Ltd. . . . Stockton-on-Tees  
 Sulzer Bros. . . . 31, Bedford Sq., W.C. 1  
 Sun Shipbuilding Co. . . . 1428 So. Penn Square, Philadelphia, Pa., U.S.A.  
 Tangyes Limited . . . Birmingham  
 Thompson John, Ltd. . . . Wolverhampton  
 Thornycroft J. I. & Co., Ltd. . . . Southampton  
 Tinker, Shenton & Co., Ltd. . . . Hyde, near Manchester  
 Vickers, Ltd. . . . Vickers House, Broadway, S.W. 1  
 Vosper & Co., Ltd. . . . Portsmouth  
 Wallsend Slipway & Engineering Co., Ltd. . . . Wallsend  
 White J. Samuel, & Co., Ltd. . . . East Cowes, Isle of Wight  
 Wilson William, & Co. . . . Lilybank Boiler Works, Glasgow  
 Yarrow & Co., Ltd. . . . Glasgow  
 Yates & Thom, Ltd. . . . Canal Works, Blackburn

**Boilers (Water-tube).**

British Niclausse Boiler Co., Ltd. . . . The Clock House, Arundel St., Strand, W.C. 2  
 Clarke, Chapman & Co., Ltd. . . . Gateshead-on-Tyne  
 Davey, Paxman & Co., Ltd. . . . Colchester  
 Howden James, & Co., Ltd. . . . Glasgow  
 Hudson Thomas, Ltd. . . . Coatbridge, N.B.  
 Knap, Conrad & Co., Ltd. . . . 11, Queen Victoria St., E.C. 4  
 Marshall, Sons & Co., Ltd. . . . Gainsborough  
 Mumford A. G., Ltd. . . . Colchester  
 Normand Augustin . . . 67, Rue du Perrey, Le Havre, France  
 Penman & Co., Ltd. . . . Strathclyde St., Glasgow  
 Richardson & Co., Ltd. . . . Hartlepool  
 Savery T. A. & Co., Ltd. . . . Birmingham  
 Smuders A. F. . . . Schiedam, Holland  
 Thompson, John, Water Tube Boilers, Ltd. . . . Wolverhampton  
 Thornycroft J. I. & Co., Ltd. . . . Southampton  
 Vickers, Ltd. . . . Barrow-in-Furness  
 Vosper & Co., Ltd. . . . Portsmouth  
 White J. Samuel, & Co., Ltd. . . . East Cowes, Isle of Wight  
 Wilson William, & Co. . . . Lilybank Boiler Works, Glasgow  
 Yarrow & Co., Ltd. . . . [Glasgow  
**Bolt and Nut-Making Machinery.**  
 Platt Samuel, Ltd. . . . Wednesbury  
**Bolts, Rivets, Nuts, Screws, &c.—(See also Lock Nuts & Nut-Locking Appliances.)**  
 Adams & Benson, Ltd. . . . Albion, West Bromwich  
 American Car & Foundry Co. . . . 165, Broadway, New York, U.S.A.  
 Armstrong, Stevens & Son, Ltd. . . . Whittall St., Birmingham  
 Bayliss, Jones & Bayliss, Ltd. . . . Wolverhampton  
 Beebee A. . . . Wednesbury  
 Crossley H. & P., Ackroyd . . . Mytholmroyd, Yorks.  
 Grover & Co., Ltd. . . . Carpenter's Rd, Stratford, B.  
 Hampton & Beebee, Ltd. . . . Wednesbury, South Staffs.  
 Hampton & Dean . . . Clifton Works, Wednesbury  
 Handley Page Limited . . . Croydon, Surrey  
 Kent Geo., Ltd. . . . 199, High Holborn, W.C. 1  
 Kirby Banks Screw Co., Ltd. . . . Meadow Lane, Leeds  
 MacLellan P. & W., Ltd. . . . Clutha Works, Glasgow  
 Marsden S. & Son, Ltd. . . . London Rd., Manchester  
 Mountford Fredk., Ltd. . . . Old Cross St., Birmingham  
 Positive Lock Washer Co. . . . 118-122, James Watt St., Glasgow  
 Wiley James, & Sons, Ltd. . . . Darlaston  
 Winn, W. Martin, & Co. . . . Station Works, Darlaston  
**Boring and Sinking Tools and Machinery for Shafts and Wells—(See also Rock Drills, and Well Engineers.)**  
 Bazsanger J. & C., Ltd. . . . Audrey House, Ely Place, E.C. 1  
 Burton Griffiths & Co., Ltd. . . . 64, Vauxhall Bridge Rd., S.W. 1  
 Isler C., & Co., Ltd. . . . Bear Lane, Southwark St., S.E. 1  
 Kearns, H. W., & Co., Ltd. . . . Broadheath, nr. Manchester  
 Oil Well Supply Co. . . . Dashwood House, E.C. 2  
 Stewarts & Lloyds, Ltd. . . . 41, Oswald St., Glasgow

**Bottles (Gas).—(See Gas Cylinders.)****Boxes.**

Southern James W. &  
Son, Ltd. . . . . Store St., Manchester

**Brake and Clutch Lining.**

Cresswells, Ltd. . . . . Bradford  
Ferodo, Ltd. . . . . Sovereign Mills, Chapel-  
en-le-Frith

**Brakes (Railway), &c.**

Barclay, Andrew, Sons &  
Co., Ltd. . . . . Caledonia Works, Kil-  
marnock  
Birmingham Railway Car-  
riage & Wagon Co., Ltd. . . . . Smethwick, Birmingham  
Consolidated Brake & En-  
gineering Co., Ltd. . . . . 15, Dean's Yard, West-  
minster, S.W. 1

Davies & Metcalfe, Ltd. . . . . Romiley, nr. Manchester  
Elliston, Evans, & Jackson, . . . . . 13, Cross St., Finsbury,  
Ltd. . . . . E.C. 2  
Ferodo, Ltd. . . . . Chapel-en-le-Frith  
Vacuum Brake Co., Ltd. . . . . 3 to 7, Old Queen St.,  
S.W. 1

Westinghouse Brake & Saxon  
Signal Co., Ltd. . . . . 82, York Rd., King's  
Cross, N.

**Brake Solenoids.—(See Solenoids, Brakes.)****Brakes (Water).—(See Dynamometers.)****Brass Founders and Brass Finishers.**

Bailey Sir W. H., & Co., Ltd. . . . . Salford, Manchester  
Beckenhams Foundry . . . . . Beckenham, Kent  
Bell's United Asbestos Co.,  
Ltd. . . . . 101, Southwark St., S.E.  
Billington & Newton, Ltd. . . . . Longport, Staffordshire  
Birkett T. M., & Sons, Ltd. . . . . Hanley, Staffordshire  
Blundell's London Copper  
& Brass Works (1910), Ltd. . . . . West India Dock Rd., E.  
Bodley Brothers & Co. . . . . Exeter  
Broughton Copper Co., Ltd. . . . . Manchester  
Clark George, & Sons (Hull)  
Ltd. . . . . Waterhouse Lane, Hull  
Crosby Valve & Engineer-  
ing Co., Ltd. . . . . 41 & 42, Foley St., W. 1  
Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
France & Morgan . . . . . Govan, Glasgow  
Hunt & Mitton, Ltd. . . . . Oozells St. North, Bir-  
mingham  
Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
Kent G., Ltd. . . . . 199, High Holborn,  
W.C. 1

Lunken Company, Ltd. . . . . 35, Great Dover St., S.E.  
McRobie, John, & Sons . . . . . 24, Elbow St., Glasgow  
North-Bastern Marine En-  
gineering Co., Ltd. . . . . Northumberland Works,  
Wallsend-on-Tyne

Pegler Bros., & Co. (Glas-  
gow), Ltd. . . . . Anderston, Glasgow  
Penney & Porter (Engin-  
eers), Ltd. . . . . Lincoln  
Piggott Thos., & Co., Ltd. . . . . Springhill, Birmingham  
Pulsometer Engineering  
Co., Ltd. . . . . Nine Elms Ironworks,  
Reading  
Russell John & Co., Ltd. . . . . Birmingham,  
Coventry  
Sterling Metals, Ltd. . . . . Kelvinhaugh, Glasgow  
Steven & Struthers . . . . . London Rd. Ironworks,  
Southampton (Glasgow)  
Stewart Duncan, & Co., Ltd. . . . . Bonnington Rd., Edin-  
burgh  
Thornycroft J.I., & Co., Ltd. . . . .  
Victoria Brass Foundry Co.,  
Ltd. . . . .  
Wallsend Shipway & Engin-  
eering Co., Ltd. . . . . Wallsend

**Brass Rods and Sections.**

Bolton Thomas, & Sons,  
Ltd. . . . . 57, Bishopsgate, E.C. 2

Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
McKechnie Brothers, Ltd. . . . . Rotton Park St., Bir-  
mingham

**Brewery Plant.**

Blair, Campbell & McLean, } Woodville St., Govan,  
Ltd. . . . . Glasgow  
Pontifex & Wood, Ltd. . . . . Union Foundry, Derby

**Brick and Tile-Making Machinery.**

Alexander, Herbert & Co., } Leeds  
Ltd. . . . .  
Bodley Bros., & Co. . . . . Exeter  
Bradley & Craven, Ltd. . . . . Westgate Common Found-  
ry, Wakefield  
Brightside Foundry & Bng.  
Co., Ltd. . . . . Sheffield  
Smith F. L., & Co., Ltd. . . . . 20, Essex St., W.C. 2

**Bridge Foundation Cylinders.—(See also Structural Engineering.)**

Clay Cross Co., Ltd. . . . . Clay Cross, near Chester-  
field  
Head, Wrightson & Co., Ltd. . . . . Thornaby-on-Tees

**Bridges.—(See Structural Engineering.)****Briquette Machinery.**

Briquette Machinery, Ltd. . . . . Charmouth St., Leeds

**Buffers.**

Brown John, & Co., Ltd. . . . . Sheffield  
Cammell Laird & Co., Ltd. . . . . Sheffield  
Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
MacLellan P. & W., Ltd. . . . . Clutha Works, Glasgow  
Midland Railway Carriage  
and Wagon Co., Ltd. . . . . Midland Works, Birming-  
ham  
Turton T., & Sons, Ltd. . . . . Sheaf Works, Sheffield

**Buildings (Iron and Steel).—(See Structural Engineering.)****Buildings (Portable).**

Bath T., & Co. . . . . 18, Savoy St., W.C. 2

**Buoys (Iron and Steel).**

Bellamy John, Ltd. . . . . Millwall, B.  
Brown, Lenox & Co. . . . .  
(London), Ltd. . . . . Millwall, B.  
Robey & Co., Ltd. . . . . Lincoln

**Burners (Gas).****Cabinets (Engineers').****Cable Laying Machinery.**

Clarke, Chapman & Co., } Victoria Works, Gates-  
Ltd. . . . . head-on-Tyne

**Cables (Chain).**

Wood Henry, & Co., Ltd. . . . . Saltney, near Chester

**Cables (Electric Light, Telegraph and Telephone).**

British Aluminium Co., Ltd. . . . . 109, Queen Victoria St.,  
British Insulated & Helsby  
Cables, Ltd. . . . . Prescott, Lancashire [E.C. 4]

**Cables (Electric Light, Telegraph and Telephone)—Continued.**

|                                                        |                                       |
|--------------------------------------------------------|---------------------------------------|
| India Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silvertown, B.                        |
| Johnson & Phillips, Ltd.                               | Charlton, S.E. 7                      |
| New Gutta Percha Co., Ltd.                             | Dashwood House, New Broad St., E.C. 2 |
| Siemens Bros. & Co., Ltd.                              | Woolwich, S.E. 18                     |
| Smith H. W., & Co. (1920).                             | Central House, Kingsway, W.C. 2       |

**Canteen Equipment.**

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Brightside Foundry & Engineering Co., Ltd. | Sheffield                     |
| Carron Company                             | Carron, Stirlingshire         |
| Wright John, & Co.                         | Essex Wks., Aston, Birmingham |

**Capstans (Steam, Hydraulic & Electric).**

|                             |                                              |
|-----------------------------|----------------------------------------------|
| Berry Henry, & Co., Ltd.    | Croydon Works, Leeds                         |
| Booth Joseph, & Bros., Ltd. | Rodley, Leeds                                |
| Campbell & Calderwood       | Soho Engine Wks., Paisley                    |
| Campbell & Isherwood, Ltd.  | Bootle, nr. Liverpool                        |
| Clarke, Chapman & Co., Ltd. | Gateshead-on-Tyne                            |
| Napier Bros., Ltd.          | 130, Hyde Park Street, Chester [Glasgow, W.] |
| Sandycroft Limited          | Bishopbriggs, Glasgow                        |
| Turnbull Alex., & Co., Ltd. | Birmingham                                   |
| Ward H. W., & Co., Ltd.     |                                              |

**Carbons (Electric).**

|                           |                                  |
|---------------------------|----------------------------------|
| Newcastle Alloy Co., Ltd. | Milburn House, Newcastle-on-Tyne |
|---------------------------|----------------------------------|

**Carburettors and Vaporisers.**

|                                |                         |
|--------------------------------|-------------------------|
| Thornycroft J. I., & Co., Ltd. | Basingstoke             |
| Zenith Carburetter Co., Ltd.   | 40-42, Newman St., W. 1 |

**Carriage (Railway) Builders.**

|                                               |                                 |
|-----------------------------------------------|---------------------------------|
| American Car & Foundry Co.                    | 165, Broadway, New York, U.S.A. |
| Birmingham Railway Carriage & Wagon Co., Ltd. | Smethwick, Birmingham           |
| Clayton Wagons, Ltd.                          | Lincoln                         |
| Glasgow Railway Engineering Co., Ltd.         | Govan, Glasgow                  |
| Hurst, Nelson & Co., Ltd.                     | Motherwell, N.B.                |
| Leeds Forge Co., Ltd.                         | Leeds                           |
| MacLellan P. & W., Ltd.                       | Clintham Works, Glasgow         |
| Midland Railway Carriage and Wagon Co., Ltd.  | Midland Works, Birmingham       |
| Pickering R. Y., & Co., Ltd.                  | Wishaw, nr. Glasgow             |

**Carriage (Railway) Fittings.**

|                           |                        |
|---------------------------|------------------------|
| Kaye Joseph, & Sons, Ltd. | 93, High Holborn, W.C. |
|---------------------------|------------------------|

**Cartridge-Making Machinery.**

|                        |            |
|------------------------|------------|
| Taylor & Challen, Ltd. | Birmingham |
|------------------------|------------|

**Case-Hardening Materials.**

|                         |                 |
|-------------------------|-----------------|
| Case-Making Machinery.  |                 |
| Ransome A., & Co., Ltd. | Newark-on-Trent |

**Castings (Aluminium).**

|                                                |                       |
|------------------------------------------------|-----------------------|
| Beckenham Foundry                              | Beckenham, Kent       |
| Birkett T. M., & Sons, Ltd.                    | Hanley, Staffordshire |
| Birmingham Aluminium Castings (1903) Co., Ltd. | Birmingham            |

**Castings (Aluminium)—Continued.**

|                                                    |                               |
|----------------------------------------------------|-------------------------------|
| Blunell's London Copper & Brass Works (1910), Ltd. | West India Dock Rd., E.       |
| Cie. des Moteurs                                   | 32, Rue des Mathuriens, Paris |
| "National"                                         | Paris                         |
| Heath & Co., Ltd.                                  | New Eltham, S.E. 9            |
| Mills William, Ltd.                                | Grove St., Birmingham         |
| Sterling Metals, Ltd.                              | Coventry                      |

**Castings (Die).**

|                                    |                                         |
|------------------------------------|-----------------------------------------|
| Atlas Metal & Alloys Co., Ltd.     | 52, Queen Victoria St. E.C.             |
| Fry's Metal Foundry                | 25-42, Holland St., Blackfriars, S.E. 1 |
| Holme Edward, & Co., Ltd.          | Altrincham, Cheshire                    |
| Hoyt Metal Co., Ltd.               | Deodar Rd., Putney, [S.W. 15]           |
| Patent Die Castings Co., Ltd.      | 64, Strode Rd., N.W. 10                 |
| Sparklets & General Mfg. Co., Ltd. | Angel Rd., Edmonton, N. 18              |

**Castings (Iron).—(See also Pipe Founders.)**

|                                              |                                        |
|----------------------------------------------|----------------------------------------|
| Alley & MacLellan, Ltd.                      | Sentinel Works, Glasgow                |
| Ashmore, Benson, Pease & Co., Ltd.           | Stockton-on-Tees                       |
| Beardmore W., & Co., Ltd.                    | Glasgow                                |
| Bodley Brothers & Co.                        | Breter                                 |
| Brandon Bridge-Building Co., Ltd.            | Brandon Works, Motherwell              |
| Broadbent Thos., & Sons, Ltd.                | Huddersfield                           |
| Butterley Co., Ltd.                          | Derby                                  |
| Burmeister & Wain, Ltd.                      | Copenhagen, Denmark                    |
| Carron Company                               | Carron, Stirlingshire                  |
| Cie. des Moteurs                             | 32, Rue des Mathuriens, Paris          |
| "National"                                   | Paris                                  |
| Clay Cross Co., Ltd.                         | Clay Cross, nr. Chester                |
| Clayton & Shuttleworth, Ltd.                 | [field]                                |
| Daniell S. A., Ltd.                          | Lincoln                                |
| Entwistle & Gass, Ltd.                       | Birmingham                             |
| Glenfield & Kennedy, Ltd.                    | Bolton                                 |
| Ham, Baker & Co., Ltd.                       | Kilmarnock, N.B.                       |
| Hardy & Padmore, Ltd.                        | Langley Green, Birmingham              |
| Harper A., Sons & Bean, Ltd.                 | Worcester [ham]                        |
| Head, Wrightson & Co., Ltd.                  | Dudley, Worcestershire                 |
| Herbert Alfred, Ltd.                         | Thornaby-on-Tees                       |
| Holding John, & Co., Ltd.                    | Coventry                               |
| Hollingsdrake, H. & Son, Ltd.                | Sheffield                              |
| Hurst, Nelson & Co., Ltd.                    | Stockport                              |
| Kent Geo., Ltd.                              | Motherwell, N.B.                       |
| Kynoch, Ltd.                                 | 199, High Holborn, W.C.                |
| Lea Valley Engineering Co., Ltd.             | Witton, Birmingham                     |
| Lilleshall Co., Ltd.                         | City Foundry, Waltham Cross            |
| Marsden H. R., Ltd.                          | Oakengates, Shropshire                 |
| Midland Railway Carriage and Wagon Co., Ltd. | Soho Foundry, Leeds                    |
| Mills, William, Ltd.                         | Midland Works, Birmingham              |
| North-Eastern Marine Engineering Co., Ltd.   | ham                                    |
| Pegler Bros., & Co. (Glasgow), Ltd.          | Grove St., Birmingham                  |
| Penney & Porter (Engineers), Ltd.            | Northumberland Works, Wallsend-on-Tyne |
| Piggott Thos., & Co., Ltd.                   | Anderston, Glasgow                     |
| Ransome A., & Co., Ltd.                      | Lincoln                                |
|                                              | Springhill, Birmingham                 |
|                                              | Newark-on-Trent                        |

**Castings (Iron)—Continued.**

|                                             |                                 |
|---------------------------------------------|---------------------------------|
| Ransomes, Sims & Jefferies, Ltd.            | Orwell Works, Ipswich           |
| Robey & Co., Ltd.                           | Lincoln                         |
| Roe & Harrison, Ltd.                        | Derby                           |
| Rose, Downs & Thompson                      | Old Foundry, Hull               |
| Shaw W., & Co.                              | Middlesbro'-on-Tees             |
| Sterling Metals, Ltd.                       | Coventry                        |
| Stokes Castings, Ltd.                       | Mansfield                       |
| Thornycroft J.I. & Co., Ltd.                | Southampton                     |
| Tickle John, & Co., Ltd.                    | Providence Works, West-Bromwich |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester     |
| Vickers Limited                             | Sheffield                       |
| Walford T. J.                               | Charles Henry St., Birmingham   |

Wallsend Slipway & Engineering Co., Ltd.

Wallsend  
Manchester

Wallwork Henry, & Co., Ltd.

**Castings (Malleable Iron).**

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Dominion Malleable, Ltd.          | Etna Works, Smethwick                 |
| Fletcher George, & Co., Ltd.      | Litchurch, Derby                      |
| Hadfields Limited                 | Hecla Works Sheffield                 |
| Hale Thomas L., Ltd.              | Tipton, Staffordshire                 |
| Le Bas Edward, & Co.              | Dock House, Billiter St. Derby [B.C.] |
| Parker Foundry Co., Ltd.          |                                       |
| Penney & Porter (Engineers), Ltd. | Lincoln                               |
| Stringer & Co. (Sheffield), Ltd.  | Sheffield                             |
| Tangyes Limited                   | Birmingham                            |
| Vickers Limited                   | Sheffield                             |
| Wallwork Henry, & Co., Ltd.       | Manchester                            |

**Castings (Non-Ferrous).**

|                                                     |                                        |
|-----------------------------------------------------|----------------------------------------|
| Atlas Metal & Alloys Co., Ltd.                      | 52, Queen Victoria St., E.C.           |
| Bailey Sir W.H., & Co., Ltd.                        | Salford, Manchester                    |
| Beckenham Foundry                                   | Beckenham, Kent                        |
| Bell's United Asbestos Co., Ltd.                    | 59½, Southwark St., S.E.               |
| Billington & Newton, Ltd.                           | Longport, Staffordshire                |
| Birkett T. M., & Sons, Ltd.                         | Hanley, Staffordshire                  |
| Blundell's London Copper & Brass Works (1910), Ltd. | West India Dock Rd., E.                |
| Bodley Brothers & Co.                               | Exeter                                 |
| Boulton & Paul, Ltd.                                | Norwich                                |
| Broughton Copper Co., Ltd.                          | Manchester                             |
| Burmeister & Wain, Ltd.                             | Copenhagen, Denmark                    |
| Crosby Valve & Engineering Co., Ltd.                | 41 & 42, Foley St., W.1                |
| Delta Metal Co., Ltd.                               | East Greenwich, S.E.                   |
| France & Morgan                                     | Govan, Glasgow                         |
| Ham Baker & Co., Ltd.                               | Langley Green, Birmingham              |
| Heath & Co., Ltd.                                   | New Eltham, S.E. 9                     |
| Hunt & Mitton, Ltd.                                 | Oozells St. North, Birmingham          |
| Hurst, Nelson & Co., Ltd.                           | Motherwell, N.B.                       |
| Kent Geo., Ltd.                                     | 199 High Holborn, W.C.1                |
| Lunken Company, Ltd.                                | 35, Great Dover St., S.E.              |
| McRobie John, & Sons                                | 94, Elliot St., Glasgow                |
| North-Eastern Marine Engineering Co., Ltd.          | Northumberland Works, Wallsend-on-Tyne |
| Pegler Bros. & Co. (Glasgow), Ltd.                  | Anderston, Glasgow                     |
| Penney & Porter (Engineers), Ltd.                   | Lincoln                                |

**Castings (Non-Ferrous)—Continued.**

|                                          |                              |
|------------------------------------------|------------------------------|
| Piggott Thos., & Co., Ltd.               | Springhill, Birmingham       |
| Pulsometer Engineering Co., Ltd.         | Nine Elms Ironworks, Reading |
| Smith E. J., & Co.                       | Hay Mills, Birmingham        |
| Sterling Metals, Ltd.                    | Coventry                     |
| Steven & Struthers                       | Kelvinhaugh, Glasgow         |
| Stewart Duncan, & Co., Ltd.              | London Rd Ironworks, Glasgow |
| Thornycroft, J. I., & Co., Ltd.          | Southampton                  |
| Victoria Brass Foundry Co., Ltd.         | Bonnington Rd., Edinburgh    |
| Wallsend Slipway & Engineering Co., Ltd. | Wallsend                     |
| Young Daniel                             | Witney, Oxfordshire          |

**Castings (Steel).—(See also Manganese Steel Castings and Forgings.)**

|                                                  |                                         |
|--------------------------------------------------|-----------------------------------------|
| Allen Edgar, & Co., Ltd.                         | Sheffield                               |
| Allied Steel Makers' Founders, Ltd.              | Central House, Kingsway, W.C. 2         |
| Ashmore, Benson, Pease & Co., Ltd.               | Stockton-on-Tees                        |
| Beardmore W., & Co., Ltd.                        | Glasgow                                 |
| Bessemer Henry, & Co., Ltd.                      | Sheffield                               |
| Brandon Bridge-Building Co., Ltd.                | Brandon Works, Motherwell               |
| Broadbent Thos., & Sons, Ltd.                    | Huddersfield                            |
| Brown John, & Co., Ltd.                          | Sheffield                               |
| Burmeister & Wain, Ltd.                          | Copenhagen, Denmark                     |
| Cammell Laird & Co., Ltd.                        | Sheffield                               |
| Cie. des Moteurs "National"                      | 32, Rue des Mathurines, Paris           |
| Clayton & Shuttleworth, Ltd.                     | Lincoln                                 |
| Colville David, & Sons, Ltd.                     | Motherwell, nr. Glasgow                 |
| Craig A. F., & Co., Ltd.                         | Paisley                                 |
| Darlington Forge, Ltd.                           | Albert Hill, Darlington                 |
| Firth Thos., & Sons, Ltd.                        | Norfolk Works, Sheffield                |
| Hadfields Limited                                | Hecla Works, Sheffield                  |
| Hale Thomas L., Ltd.                             | Tipton, Staffordshire                   |
| Henderson, John M., & Co.                        | King's Works, Aberdeen                  |
| Holcroft's Steel Foundry Co., Ltd.               | Bilston, South Staffordshire            |
| Holding John, & Co., Ltd.                        | Sheffield                               |
| Jackson P. R., & Co., Ltd.                       | Manchester                              |
| Jessop Wm., & Sons, Ltd.                         | Brightside Works, Sheffield             |
| Jopling F., & Sons, Ltd.                         | Sunderland                              |
| Lloyd, F. H., & Co., Ltd.                        | James Bridge Steel Wks., nr. Wednesbury |
| Marsden H. R., Ltd.                              | Soho Foundry, Leeds                     |
| Mild Steel Castings, Ltd.                        | Tyseley, Birmingham                     |
| Osborn Samuel, & Co., Ltd.                       | Clyde Steel Works, Sheffield            |
| Parker Foundry Co., Ltd.                         | Derby                                   |
| Penny & Porter (Engineers), Ltd.                 | Lincoln                                 |
| Shaw W., & Co.                                   | Middlesbro'-on-Tees                     |
| Steel Co. of Scotland, Ltd.                      | 23, Royal Exchange Sq., Glasgow         |
| Stewarts & Lloyds, Ltd.                          | 41, Oswald St., Glasgow                 |
| Stokes Castings, Ltd.                            | Mansfield                               |
| Stringer & Co. (Sheffield), Ltd.                 | Sheffield                               |
| Vermot, Ch., Valère, Mabillo & R. Pelgrims, Ltd. | 83, Victoria St., S.W.1                 |
| Vickers Limited                                  | Sheffield                               |

**Cement (Iron, &c.).**

|                                  |                             |
|----------------------------------|-----------------------------|
| British Steam Specialities, Ltd. | Bedford St., Leicester      |
| Hill W. W., Son & Wallace, Ltd.  | Broughton, Manchester       |
| House F., & Co.                  | 68, Falkner, St., Liverpool |
| Hunt, Hedley S., & Co.           | 5, Farrington Rd., E.C.1    |
| Notcutt Walter, Ltd.             | 8, White St., E.C.          |

**Cement (Portland).**

|                   |                                          |
|-------------------|------------------------------------------|
| Ironite Co., Ltd. | 11, Old Queen Street, Westminster, S.W.1 |
| Maxted & Knott    | Burnett Avenue, Hull                     |
| Rowse & Company   | 1, Dawson St., White-chapel, Liverpool   |

**Cement-Making Plant.**

|                            |                      |
|----------------------------|----------------------|
| Allen Edgar, & Co., Ltd.   | Sheffield            |
| Aveling & Porter, Ltd.     | Rochester            |
| Fletcher Geo., & Co., Ltd. | Derby                |
| Smith F. L., & Co.         | 20, Essex St., W.C.2 |

**Centrifugal Drying Machines.—(See also Cream Separators, and Hydro-Extractors.)**

|                              |                                 |
|------------------------------|---------------------------------|
| Broadbent T., & Sons, Ltd.   | Chapel Hill, Huddersfield       |
| Manlove, Alliott & Co., Ltd. | Nottingham                      |
| Pott, Cassels & Williamson   | Motherwell, nr. Glasgow         |
| Tullis D. & J., Ltd.         | Glasgow                         |
| Watson, Laidlaw & Co., Ltd.  | 98, Dundas St. (South), Glasgow |

**Compool Exhauster.**

|                           |                     |
|---------------------------|---------------------|
| Merryweather & Sons, Ltd. | Greenwich Rd., S.E. |
|---------------------------|---------------------|

**Chains (Gearing).**

|                                                    |                                         |
|----------------------------------------------------|-----------------------------------------|
| Association of British Driving Chain Manufacturers | Bassishaw House, Basinghall St., E.C. 2 |
| Brampton Bros., Ltd.                               | Birmingham                              |
| Conventry Chain Co., Ltd.                          | Conventry                               |
| Renold Hans, Ltd.                                  | Burnage Works, Didsbury, Manchester     |
| Westinghouse Morse Chain Co., Ltd.                 | Letchworth, Herts                       |

**Chemical Works (Plant for).**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Alley & MacLellan, Ltd.                         | Sentinel Works, Glasgow          |
| Blair, Campbell & McLean, Ltd.                  | Woodville St., Govan, Glasgow    |
| British Chemical Ware Manufacturers Asso., Ltd. | 51, Lincoln's Inn Fields, W.C. 2 |
| Dowson & Mason Gas Plant Co., Ltd.              | Levenshulme, Manchester          |
| Farrar Boiler Works, Ltd.                       | St. James's Chambers, Accrington |
| Guthrie & Co.                                   | Nottingham                       |
| Manlove, Alliott & Co., Ltd.                    | Birmingham                       |
| Piggott Thos., & Co., Ltd.                      | Stockton-on-Tees                 |
| Power Gas Corporation, Ltd.                     | Wolverhampton                    |
| Thompson John, Ltd.                             |                                  |

**Chimneys.**

|                          |                                |
|--------------------------|--------------------------------|
| Bellamy John, Ltd.       | Millwall, B.                   |
| Clayton Son, & Co., Ltd. | Hunslet, Leeds                 |
| Lysaght John, Ltd.       | St. Vincent Ironworks, Bristol |
| Steel Pipe Company, Ltd. | Kirkcaldy, N.B.                |

**Chucks.—(See also Machine Tools.)**

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Budgett H. M.                           | Crown Works, Chelmsford              |
| Burton, Griffiths & Co., Ltd.           | 64 to 70, Vauxhall Bridge Rd., S.W.1 |
| Forbes Bros.                            | Doe St., Birmingham                  |
| Gardner T. J.                           | Century Tool Works, Bristol          |
| Herbert, Alfred, Ltd.                   | Coventry                             |
| Jacobs Manufacturing Co.                | Hartford, Conn., U.S.A.              |
| Jones A. A., & Shipman, Ltd.            | East Park Rd., Leicester             |
| Notcutt, Walter P., Ltd.                | 8, White St., Moorfields, E.C. 2     |
| Rapid Magnetting Machine Co., Ltd.      | 52, Lombard St., Birmingham          |
| Robertson Thos. R.                      | 7, Hurst St., Liverpool              |
| St. George's Engineering Co.            | Birmingham                           |
| Selson Engineering Co., Ltd.            | 83-85, Queen Victoria St., E.C. 4    |
| Shaw John, & Sons (Wolverhampton), Ltd. | Wolverhampton                        |
| Skinner Chuck Co.                       | 199, Queen Victoria St., E.C. 4      |
| Taylor Charles (Birmingham), Ltd.       | Bartholomew Sq., Birmingham          |
| Wharton H., Ltd.                        | Reddish, Stockport                   |

**Clocks.—(See Watches & Clocks.)****Cloth Finishing Machinery.****Clutches (Friction).**

|                                             |                                     |
|---------------------------------------------|-------------------------------------|
| Bridge David, & Co., Ltd                    | Castleton, Manchester               |
| Broadbent Thos., & Sons, Ltd.               | Chapel Hill, Huddersfield           |
| Crofts (Engineers), Ltd.                    | Empire Works, Bradford              |
| Edmeston Archibald, & Sons, Ltd.            | Patrickcroft, nr. Manchester        |
| Entwistle & Gass, Ltd.                      | Bolton                              |
| Ferodo, Ltd.                                | Chapel-en-le-Frith                  |
| Reddaway F. & Co., Ltd.                     | Pendleton, Manchester               |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester         |
| Wigglesworth F., & Co., Ltd.                | Clutch Works, Shipley, nr. Bradford |

**Coal Handling Plant.—(See also Conveyors & Elevators.)**

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Allen Edgar, & Co., Ltd.            | Sheffield                         |
| Dempster Robert, & Sons, Ltd.       | Elland, Yorkshire                 |
| Fletcher Malleable Foundries, Ltd.  | Litchurch Lane, Derby             |
| Fraser & Chalmers Engineering Works | Erith, Kent                       |
| General Electric Co., Ltd.          | Magnet House, Kingsway, W.C. 2    |
| Head, Wrightson & Co., Ltd.         | Thornaby-on-Teess                 |
| Jenkins, W. J., & Co., Ltd.         | Beehive Works, Retford            |
| Lidgerwood Ltd.                     | Friars House, New Broad St., E.C. |
| Reddaway F., & Co., Ltd.            | Pendleton, Manchester             |
| Werf Conrad                         | Haarlem, Holland                  |

**Coal (Pulverizing & Drying Plant).**

|                    |                             |
|--------------------|-----------------------------|
| Fuller-Lehigh Co.  | Fullerton, Pa., U.S.A.      |
| Pratchitt Brothers | Denton Iron Works, Carlisle |

**Cocks.—(See Valves, Gas, Steam, Water, &c.)**

**Colls (Pipe and Tube)**

Millwall Engineering Co.,  
Ltd. .. .. 21, Pantou St., S.W.1

**Coining Machinery.**

Taylor & Challen, Ltd. .. Birmingham

**Coke Rams.**

Ransomes & Rapier, Ltd. Ipswich

**Colliery Plant.—(See also Haulage Plant, Mining Machinery, and Pumps.)**

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow  
Barclay Andrew Soas & Co., Ltd. .. Caledonia Works, Kilmarnock

Bennis Ed., & Co. Ltd. .. Bolton  
Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.

Carron Company .. Carron, Stirlingshire  
Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield

Clayton Son, & Co., Ltd. .. Hunslet, Leeds

Fletcher George & Co., Ltd. Litchurch, Derby

Hadfields Limited .. Hecla Works, Sheffield

Hathorn, Davey & Co., Ltd. Leeds

Head, Wrightson & Co., Ltd. Thornaby-on-Tees

Heenan & Froude, Ltd. .. Worcester Bng. Wks, Worcester

Lidgerwood Ltd. .. Friars House, New Broad St., E.C.

Lilleshall Co., Ltd. .. Oakengates, Shropshire

Reddaway F., & Co., Ltd. Pendleton, Manchester

Robey & Co., Ltd. Lincoln

Ruston & Hornsby, Ltd. Grantham

Sandycroft Limited .. Chester

**Colliery Proprietors.**

Brown John, & Co., Ltd. .. Sheffield

Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield

Glasgow Iron & Steel Co., Ltd. Wishaw Iron & Steel Works, Wishaw

**Compasses.**

Negretti & Zambra .. 38, Holborn Viaduct, E.C.

**Composition for Covering Boilers, &c.—(See Non-conducting Compositions.)****Compressed Gases (Bottles and Fittings for).**

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.

**Concrete Blocks and Slabs (Machines for Making).****Concrete Mixers.—(See also Mixers.)**

Hardy & Padmore, Ltd. .. Worcester

Parker Frederick .. Dunn's Lane, Leicester

Ransomes Machinery Co. } 14 & 16, Grosvenor Gar-

(1920), Ltd. .. dens, Westminster, S.W.

Stothert & Pitt, Ltd. .. Bath

**Concrete (Plain and Reinforced).**

British Reinforced Concrete } 1, Dickinson St., Man-

Engineering Co., Ltd. .. chester

Expanded Metal Co., Ltd. York Mansions, York St., Westminster, S.W.

Holst K., & Co. .. 1, Victoria St., S.W. 1

**Condensers (Evaporative).****Condensers (Fresh Water).—(See Distilling (Water) Apparatus.)****Condensers (for Steam Engines).**

Adamson Daniel, & Co., Ltd. Dukinfield

Allen W.H., Sons, & Co., Ltd. Bedford

Belliss & Morcom, Ltd. .. Ledsam St. Works, Birmingham

Caird & Rayner .. 777, Commercial Rd., B.

Campbell & Calderwood, .. Soho Works, Paisley, Scotland

Carruthers J. H., & Co., Ltd. Polmadie Ironworks, Glasgow

Clyne Engineering Co. } 94, Market St., Manchester

Ltd. .. ter

Cole, Marchent & Morley, Ltd. Bradford

De Laval Steam Turbine } 150, Southampton Row,

Co. .. W.C.1

Escher, Wyss & Co. .. 20, Grosvenor Gardens S.W.1

Friedenthal, Ltd. .. Preston

Hall J. P., & Sons, Ltd. .. Peterborough

Harris Patent Feed-Water } 24, Grainger St. West,

Filter (1910), Ltd. .. Newcastle-on-Tyne

Hayward Tyler & Co., Ltd. 99, Queen Victoria St., [E.C.

Hick, Hargreaves & Co., Ltd. Soho Works, Bolton

Metropolitan-Vickers } Trafford Park, Man-

Electrical Co., Ltd. .. chester

Mirrlees Watson Co., Ltd. Scotland St., Glasgow

Newton, Bean & Mitchell .. Dudley Hill, Bradford

Parsons C. A., & Co., Ltd. Newcastle-on-Tyne

Piggott Thos., & Co., Ltd. Springhill, Birmingham

Premier Cooler & Engineer- } Station Works, Shalford,

ing Co., Ltd. .. nr. Guildford, Surrey

Pulsometer Engineering } Nine Elms Ironworks,

Co., Ltd. .. Reading

Richardsons, Westgarth } Hartlepool

and Co., Ltd. .. Lincoln

Robey & Co., Ltd. .. Irlam, near Manchester

Royles Limited .. Southampton

Thornycroft J.I., & Co., Ltd. Barrow-in-Furness

Vickers, Ltd. .. Cathcart, Glasgow

Weir G. & J., Ltd. .. Carteret, N.J., U.S.A.

Wheeler Condenser & Engineer- } Queen's House, Kings-

ing Co. .. way, W.C. 2

Worthington-Simpson, Ltd. .. Tipton, Staffs.

**Constructional.—(See Structural Engineering.)****Contractors.**

English Electric Co., Ltd. Queen's House, Kings-

way, W.C. 2

**Controllers (Electrical).—(See Motor Starters.)****Conveyors and Elevators.—(See also Coal Handling Plants.)**

Allen Edgar, & Co., Ltd. .. Sheffield

Barry Henry, & Cook, Ltd. Aberdeen

Bennis Ed., & Co., Ltd. .. Bolton

British Ropeway Engineer- } 7, Mincing Lane, E.C.3

ing Co., Ltd. ..

Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.

Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.

Conveyor & Elevator Co. .. Accrington, Lancashire

Ewart Chalmers Co., Ltd. Derby

Figue, Ltd. .. Haarlem, Holland

Fletcher George, & Co., Ltd. Litchurch, Derby

**Conveyors and Elevators.—Continued.**

Fletcher Malleable Foundries, Ltd. . . . . Litchurch Lane, Derby  
 Fraser & Chalmers Engineering Works . . . . . Erith, Kent  
 Gibbons Bros., Ltd. . . . . Dudley, Worc.  
 GuttaPercha & Rubber, Ltd. . . . . Toronto, Canada  
 Head, Wrightson & Co., Ltd. . . . . Thornaby-on-Tees  
 Heenan & Froude, Ltd. . . . . Worcester  
 Jeffrey Manufacturing Co. . . . . Columbus, Ohio, U.S.A.  
 Jenkins W. J., & Co., Ltd. . . . . Beehive Works, Retford  
 Lidgerwood Ltd. . . . . Friars House, New Broad St., E.C.

Marsden H. R., Ltd. . . . . Soho Foundry, Leeds  
 Pott, Cassels & Williamson . . . . . Motherwell, nr. Glasgow  
 Ransomes Machinery Co. } 14 & 16, Grosvenor Gardens, Westminster, S.W.  
 (1920), Ltd. . . . . Pendleton, Manchester  
 Reddaway F., & Co., Ltd. & } 225, Upper Thames St.,  
 Rowson, Drew & } E.C.4  
 Clydesdale, Ltd. . . . . 20, Essex St., W.C. 2.  
 Smith F. L., & Co., Ltd. . . . . Birmingham  
 Steel Belt Conveyors, Ltd.

**Cooking Plant.**

Carron Company . . . . . Carron, Stirlingshire

**Cooling Towers.—(See Water Cooling Plant.)****Copper Ingots, Bars and Sheets.**

Bolton Thomas, & Sons, Ltd. . . . . 57, Bishopsgate, E.C.2.  
 Broughton Copper Co., Ltd. . . . . Manchester

**Coppersmiths.**

Birmingham Battery and Metal Co. . . . . Birmingham  
 Blair, Campbell & McLean, Ltd. } Woodville St., Govan,  
 . . . . . Glasgow  
 Blundell's London Copper & Brass Works (1910) Ltd. } West India Dock Rd., E.  
 Clark George, & Sons (Hull), Ltd. . . . . Waterhouse Lane, Hull.  
 Delta Metal Co., Ltd. . . . . East Greenwich, S.E.  
 North-Eastern Marine Engineering Co., Ltd. } Northumberland Works,  
 . . . . . Wallsend-on-Tyne

**Copying Presses.**

Daniell S. A., Ltd. . . . . Edward St., Parade, Birmingham

**Corrugated Boiler Furnaces.**

Leeds Forge Co., Ltd. . . . . Leeds

**Cotton Presses.—(See also Hydraulic Presses.)**

Berry Henry, & Co., Ltd. . . . . Croxdon Works, Leeds  
 Coles H. J., Ltd. . . . . London Crane Works, Derby  
 Fawcett, Preston & Co., Ltd. } 17, York St., Liverpool  
 Piggett Thos., & Co., Ltd. } Birmingham  
 Rice & Co. (Leeds), Ltd. . . . . Elland Rd., Leeds  
 Stewart Duncan, & Co., Ltd. } London Rd. Ironworks,  
 . . . . . Glasgow  
 Tangyes, Ltd. . . . . Birmingham

**Counters for Revolutions.**

Avery W. & T., Ltd. . . . . Soho Foundry, Birmingham  
 Budenberg Gauge Co., Ltd. . . . . Broadheath, nr. Manchester  
 Handley Page, Limited . . . . . Croxdon, Surrey  
 Selson Engineering Co., Ltd. } 85, Queen Victoria St.,  
 . . . . . E.C. 4

**Couplings (Railway).**

Birmingham Railway Carriage & Wagon Co., Ltd. . . . . Smethwick, Birmingham  
 Gibbins R. C., & Co. . . . . Berkley St., Birmingham  
 Hurst, Nelson & Co., Ltd. . . . . Motherwell, N.B.  
 Weldless Chains, Ltd. . . . . Coatbridge

**Couplings (Shaft).**

Electro-Metals, Ltd. . . . . Imperial Buildings, 56, Kingsway, W.C. 2  
 Hampton & Beebee, Ltd. . . . . Wednesbury, South Staffs.  
 Jardine, J. . . . . Deering St., Nottingham  
 Newton, Bean & Mitchell . . . . . Dudley Hill, Bradford  
 Platt Samuel, Ltd. . . . . Wednesbury  
 Power Plant Co., Ltd. . . . . West Drayton, Middx.  
 Richards George, & Co., Ltd. } Broadheath, nr. M'chester  
 Smith & Grace Screw Boss Pulley Co., Ltd. . . . . Thrapston  
 Taylor & Challen, Ltd. . . . . Birmingham  
 Unbreakable Pulley & Mill Gearing Co., Ltd. . . . . 48, West Gorton, Manchester  
 Wigglesworth F., & Co., Ltd. . . . . Clutch Works, Shipley, near Bradford

**Cranes, Hoisting Machines, Travellers, Winches, &c.—(See also Lifts and Hoisting Machinery.)**

Anderson-Grice Co., Ltd. . . . . Carnoustie, Scotland  
 Arrol Sir William, & Co., Ltd. } Dalmarnock Ironworks,  
 . . . . . Bridgeton, Glasgow  
 Bedford Engineering Co. . . . . Bedford, England  
 Berry Henry, & Co., Ltd. . . . . Croxdon Works, Leeds  
 Booth Joseph, & Bros., Ltd. } Rodney, Leeds  
 Brecknell, Munro & Rogers, Ltd. . . . . Thrissell St., Bristol  
 British Electric Plant Co., Ltd. . . . . 66, Carrick St., Glasgow  
 Broadbent Thos., & Sons, Ltd. . . . . Chapel Hill, Huddersfield  
 Brown Hoisting Machinery Co. . . . . Cleveland, Ohio, U.S.A.  
 Browning Co. . . . . Cleveland, Ohio, U.S.A.  
 Butler Samuel, & Co., Ltd. } Stanningley, nr. Leeds  
 Campbell & Isherwood, Ltd. . . . . Bootle, nr. Liverpool  
 Chambers, Scott & Co., Ltd. } Motherwell  
 Chaplin Alex., & Co., Ltd. } Govan, Glasgow  
 Clarke, Chapman & Co., Ltd. } Gateshead-on-Tyne  
 Coles H. J., Ltd. . . . . London Crane Works, Derby  
 Cowans, Sheldon & Co., Ltd. } Carlisle  
 Craven Brothers (Manchester), Ltd. } Vauxhall Wks., Reddish,  
 . . . . . Stockport  
 East Ferry Road Engineering Works Co., Ltd. . . . . Millwall, E.  
 Figue, Ltd. . . . . Haarlem, Holland  
 Gibbins R. C., & Co. . . . . Berkley St., Birmingham  
 Grafton & Co. . . . . Bedford  
 Grant, Ritchie, & Co., Ltd. } Kilmarnock  
 Grieve John, & Co. . . . . Motherwell, Scotland  
 Hanworthy Engineering Co., Ltd. . . . . 76, Victoria St., S.W.1  
 Henderson, John M., & Co. } Aberdeen, Scotland  
 Heywood S. H., & Co., Ltd. } Reddish  
 Higginbottom & Mannock, Ltd. . . . . West Gorton, Manchester  
 Holt & Willetts . . . . . Lion Works, Cradley Heath  
 Horseley Bridge & Engineering Co., Ltd. . . . . Tipton, Staffordshire



**Cranes, Hoisting Machines, Travellers, Winches, &c.—Continued.**

Jack Alexander, & Co. Ltd. Motherwell  
 Kloos F., & Sons .. 20, Cophall Avenue, E.C.2  
 Lidgerwood Ltd. .. Friars House, New Broad St., E.C.  
 Marshall, Fleming, & Co., Ltd. Motherwell, N.B.  
 Middleton Bros. .. Pudsey, Leeds  
 Morris Herbert, Ltd. .. Loughborough, England  
 Musgrave Bros. .. Leeds  
 Napier Brothers, Ltd. .. 130 Hyde Park St., Glasgow, W.

Northern Crane Works, } Walkerville, Ontario, Ltd.  
 Priestman Brothers, Ltd. .. Holderness Fndry, Hull  
 Ransomes & Rapier, Ltd. .. Ipswich  
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull  
 Royce Limited .. Trafford Pk., Manchester  
 Russell George, & Co., Ltd. Motherwell, nr. Glasgow  
 Selson Engineering Co., Ltd. 85, Queen Victoria St., E.C.

Shepherd Electric Crane & Hoist Co. .. Montour Falls, New York, U.S.A.  
 Smith Thos., & Sons (Rodley), Ltd. .. Rodley, nr. Leeds  
 Smulders A. F. .. Schiedam, Holland  
 Stewart Duncan & Co., Ltd. London Rd. Ironworks, Glasgow

Stothert & Pitt, Ltd. .. Bath  
 Tangyes Limited .. Birmingham  
 Taylor & Hubbard .. Leicester  
 Universal Machinery Corporation, Ltd. .. 326, Old St., E.C.2  
 Vaughan Crane Co., Ltd. .. Openshaw, Manchester  
 Waygood-Otis, Ltd. .. Falmouth Rd., S.E.  
 Wellman Smith Owen Engineering Corporation, Ltd. .. King's House, Kingsway, W.C.2

Werr Conrad .. Haarlem, Holland  
 Wharton H., Ltd. .. Reddish, Stockport  
 Whitakers (Engineers), Ltd. Horsforth, Leeds  
 Willetts Charles, Junr., Ltd. .. Cradley Heath, Staffs.  
 Wilson John H., & Co. .. Dock House, Birkenhead  
 Wonham, Bates & Goode, Inc. 3, London Wall Buildings, E.C.  
 Youngs .. Ryland St. Works, Birmingham

**Crank Axles.**

Bessemer Henry, & Co., Ltd. Sheffield  
 Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Hadfields Limited .. Hecla Works, Sheffield  
 Stringer & Co. (Sheffield), Ltd. .. Sheffield  
 Vickers Limited .. Sheffield

**Crankshafts.**

Beardmore Wm., & Co., Ltd. Glasgow  
 Bessemer Hy., & Co., Ltd. Sheffield  
 Brown John, & Co., Ltd. Sheffield  
 Cammell Laird & Co., Ltd. Sheffield  
 Clarke's Crank & Forge Co., Ltd. Lincoln  
 Dennystown Forge Co. .. Dumbarton  
 Fife Forge Co., Ltd. .. Kirkcaldy, Scotland  
 Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Hadfields Limited .. Hecla Works, Sheffield

**Crankshafts—Continued.**

McNeill C., Ltd. .. Glasgow  
 Thornycroft J. I., & Co., Ltd. Southampton  
 Vickers Limited .. Sheffield

**Cream Separators.**

Pott, Cassells & Williamson Motherwell, nr. Glasgow

**Crucibles.**

**Crushing Machinery.—(See Disintegrators, Grinding Mills, and Stonebreakers.)**

**Cupolas.**

Aldays & Onions, Ltd. .. Birmingham  
 Constructional Engineering Co. Ltd. .. Charles Henry St., Birmingham  
 Wonham, Bates & Goode, Inc. 3, London Wall Buildings, E.C.

**Cutting-off Machines.**

Clifton & Baird, Ltd. .. Johnstone, Scotland  
 Taylor Charles (Birmingham), Ltd. .. Bartholomew Sq., Birmingham  
 Winn Charles, & Co. .. Granville Place, Birmingham

**Destructors.**

Dowson & Mason Gas Plant Co. .. Levenshulme, Manchester  
 Heenan & Froude, Ltd. .. Destructor Dept., Worcester Engineering Works, Worcester  
 Manlove, Alliot & Co., Ltd. Nottingham  
 Meldrums Limited .. Timperley, nr. Manchester

**Dials.**

Cooke James, & Son .. 8 & 9, Wrentham St., Birmingham

**Die Sinks.**

Neal Geo. H., & Co., Ltd. 11, Southampton Row, W.C. 1

**Disincrustants.**

Bartoline (Hull), Ltd. .. Myton Place, Hull  
 Bell's United Asbestos Co., Ltd. .. 591, Southwark St., S.E.  
 Tranter W. J., Ltd. .. Tipton, Staffordshire

**Disinfectors.**

Manlove, Alliot & Co., Ltd. Nottingham  
 Tullis D. & J., Ltd. .. Kilbowie Ironworks, nr. Glasgow

**Disintegrators.—(See also Grinding Mills, Ore Crushing, and Stonebreakers.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Bradley Pulverizer Co. .. 37, Walbrook, E.C.  
 Fuller-Lehigh Co. .. Fullerton, Pa., U.S.A.  
 Goodwin, Barsby & Co. .. Leicester  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hardy & Padmore Ltd. .. Worcester  
 Marsden H. R., Ltd. .. Soho Foundry, Leeds  
 Patent Lightning Crusher Co., Ltd. .. 144, Rosebery Av., Gray's Inn Rd., E.C.  
 Pratchitt Bros. .. Denton Ironworks, Carlisle  
 Smith, F. L., & Co., Ltd. 20, Essex St., W.C.2  
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.  
 Wood Hugh, & Co., Ltd. .. 65, Fenchurch St., E.C.

**Distillery Plant.**

Blair, Campbell & McLean, } Woodville St., Govan,  
 Ltd. } Glasgow  
 Dowson & Mason Gas Plant }  
 Co., Ltd. } Levenshulme, Manchester  
 Fawcett, Preston & Co., Ltd. } Liverpool  
 Mirrieles Watson Co., Ltd. } Scotland St., Glasgow  
 Pontifex & Wood, Ltd. } Union Foundry, Derby

**Distilling (Water) Apparatus.—(See also Evaporators.)**

Caird & Rayner .. 777, Commercial Rd.,  
 B.  
 Chaplin Alex., & Co. .. Govan, Glasgow  
 Griscom-Russell Co. .. 95, West St., New York,  
 U.S.A.  
 Kirkaldy John, Ltd. .. 101, Leadenhall St.,  
 E.C. 3  
 Mirrieles Watson Co., Ltd. } Scotland St., Glasgow  
 Royles Limited .. } Irlam, near Manchester

**Diving Apparatus.**

Siebe, Gorman & Co., Ltd. Neptune Works, S.B.

**Docks (Graving, &c.).**

Humber Graving Dock & } Kings Dock, Imming-  
 Engineering Co., Ltd. } ham.

**Doors (Watertight).**

Stone J., & Co., Ltd. .. Deptford, S.E.

**Draught.—(See Forced and Induced Draught.)****Draw Benches.**

Platt Samuel, Ltd. .. Wednesday

**Drawing Instruments, &c.**

American Lead Pencil Co. 173 & 175, Lower Clap-  
 ton Rd., N.E.  
 Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester  
 Hall B. J., & Co., Ltd. .. Chalfont Hse., Gt. Peter  
 St., Westminster, S.W.  
 Negretti & Zambra .. 38, Holborn Viaduct,  
 E.C.  
 United Metal Engraving } 40, High Bridge, New  
 Co., Ltd. } castle-on-Tyne

**Drawings, Tracings, &c.—(See also Photography & Materials, &c.)**

Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester

**Dredgers (Suction).**

Ferguson Brothers (Port } Newark Works, Port  
 Glasgow), Ltd. } Glasgow  
 Gwynnes, Ltd. .. } Hammersmith Ironwks.,  
 W.  
 Lobnitz & Co., Ltd. .. Renfrew, Scotland  
 Simons W., & Co., Ltd. .. Renfrew, Scotland  
 Smit L., & Zoons .. Kinderdijk, near Rotter-  
 dam, Holland

**Dredging Machines.**

Bucyrus Co. .. 13, Victoria St., West-  
 minster, S.W.  
 Coles H. J., Ltd. .. London Crane Works,  
 Derby  
 Ferguson Brothers (Port } Newark Works, Port  
 Glasgow), Ltd. } Glasgow  
 Fleming & Ferguson, Ltd. } Paisley, N.B.  
 Gwynnes Engineering Co., } Hammersmith Ironwks.,  
 Ltd. } W.  
 Hadfields Limited .. Hecla Works, Sheffield

**Dredging Machines—Continued.**

Kloos F., & Sons .. 20, Copthall Avenue,  
 E.C.2  
 Lobnitz & Co., Ltd. Renfrew, Scotland  
 Pearson S., & Sons (Con-  
 tracting Department),  
 Ltd. .. 10, Victoria St. S.W.1  
 Priestman Bros. Ltd. Holderness Foundry, Hull  
 Rose, Downs & Thompson,  
 Ltd. Old Foundry, Hull  
 Simons W., & Co., Ltd. Renfrew, N.B.  
 Smit L., & Zoons .. Kinderdijk, Holland  
 Smulders A. F. .. Schiedam, Holland  
 Stothert & Pitt, Ltd. Bath  
 Vickers Limited .. Barrow-in-Furness  
 Werf Conrad .. Haarlem, Holland  
 Western Wheeled Scraper  
 Co. .. Aurora, Illinois, U.S.A.  
 Westwood, Joseph, & Co.,  
 Ltd. .. Napier Yard, Millwall, E.  
 Whitaker D. .. 1, Union St., Leicester

**Drilling Machines.—(See Machine Tools.)****Drills (Twist).**

Armstrong, Sir W. G., Whit- 8, Great George St.,  
 worth & Co., Ltd. S.W. 1  
 Austin Motor Co., Ltd. Northfields, Birmingham  
 Birmingham Small Arms Co.,  
 Ltd. Birmingham  
 Burton, Griffiths & Co., } 64, Vauxhall Bridge Rd.,  
 Ltd. } S.W.1  
 Churchill Chas., & Co.,  
 Ltd. 9 to 15, Leonard St., E.C.  
 Stead, J., & Co., Ltd. Manor Works, Sheffield  
 Wilt Twist Drill Company } Walkerville, Ontario,  
 of Canada, Ltd. } Canada

**Drop Forgings.—(See Forgings—Drop.)****Drop Hammers.—(See Hammers—Drop.)****Drums.—(See Tanks and Drums.)****Drying Apparatus.—(See also Centrifugal Drying Machines, and Hydro-Extractors.)**

Baker Joseph, Sons &  
 Perkins, Ltd. .. 21, College Hill, E.C.4  
 Electro-Metals, Ltd. Imperial Buildings, 56,  
 Kingsway, W.C.2  
 Keith James, & Blackman } 27, Farringdon Avenue,  
 Co., Ltd. } B.C.  
 Manlove, Allott & Co., Ltd. Nottingham  
 Musgrave & Co., Ltd. St. Ann's Ironworks,  
 Belfast  
 Simon-Carves, Ltd. Manchester  
 Smidth, F. L., & Co., Ltd. 20, Essex St., W.C. 2  
 Sturtevant Engineering Co., } 147, Queen Victoria St.,  
 Ltd. } E.C.

**Dust Collectors.—(Mills, Factories, Breweries, &c.)**

British Vacuum Cleaner } Dept. 5/20, Parson's  
 Co., Ltd. } Green Lane, S.W.  
 Keith James, & Blackman  
 Co., Ltd. 27, Farringdon Av., E.C.  
 Ransome A., & Co., Ltd. Stanley Wks., Newark-on-  
 Trent  
 Simon-Carves, Ltd. Manchester  
 Sturtevant Engineering Co., } 147, Queen Victoria St.  
 Ltd. } B.C.  
 Sutcliffe Ventilating &  
 Drying Co., Ltd. Manchester

**Dust Shields for Bearings.**

Vickers B. R., &amp; Sons, Ltd. Leeds

**Dynamometers.**Dobbie McInnes & Clyde, Ltd. Glasgow  
Heenan & Froude, Ltd. Worcester**Dynamos.—(See Electric Lighting and Power Plant.)****Ebonite.**—(See also *India Rubber Goods and Woodite for Steam, &c., Packings.*)India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, B.  
Reddaway F., & Co., Ltd. Pendleton, Manchester**Economisers (Fuel).**

Clay Cross Co., Ltd. Clay Cross, near Chesterfield

Thompson John (Wolverhampton), Ltd. Wolverhampton

**Electric Accumulators.—(See Accumulators.)****Electric Bells and Signals.**

Bailey Sir W. H., &amp; Co., Ltd. Salford, Manchester

**Electric Cables.—(See also Telegraph Wire and Cables.)**

British Aluminium Co., Ltd. 109, Queen Victoria St., E.C. 4

British Insulated & Helsby Cables, Ltd. Prescott, Lancashire  
Hackbridge Cable Co., Ltd. 15, Victoria St., S.W. 1  
India Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, B.**Electric Lighting and Power Plant.—(See also Motor Starters & Accessories, and Switchboards & Accessories.)**Allen W. H., Sons & Co., Ltd. Bedford  
Alley & Macellan, Ltd. Sentinel Works, Glasgow  
Brecknell, Munro & Rogers, Ltd. Thrissell St., Bristol  
British Electric Plant Co., Ltd. 66, Carrick St., Glasgow  
British Insulated & Helsby Cables, Ltd. Prescott, Lancashire  
British Thomson-Houston Co., Ltd. Rugby  
Campbell & Isherwood, Ltd. Bootle, nr. LiverpoolClarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
Consolidated Construction Co., Ltd. 9, Cloak Lane, Cannon St., E.C. 4  
Crowther & Osborn, Ltd. 7, Blackfriars St., Salford, ManchesterElectromotors, Ltd. Openshaw, Manchester  
English Electric Co., Ltd. Queen's House, Kingsway, W.C. 2Fowler J., & Co. (Leeds), Ltd. Leeds  
General Electric Co., Ltd. Magnet House, Kingsway, W.C. 2  
Hackbridge Cable Co., Ltd. 15, Victoria St., S.W. 1  
Hall J. P., & Co., Ltd. OldhamHamworthy Engineering Co., Ltd. 76, Victoria St., S.W. 1  
Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
Higgs Bros. Sand Pits, Birmingham  
Holmes J. H., & Co. Newcastle-upon-Tyne  
Howden James, & Co., Ltd. Scotland St., GlasgowIndia Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, B.  
Johnson & Phillips, Ltd. Charlton, S.E. 7**Electric Lighting and Power Plant—Continued.**Lancashire Dynamo & Motor Co., Ltd. Trafford Pk., Manchester  
Lister R. A., & Co., Ltd. DursleyMacfarlane Engineering Co., Ltd. Netherlee Rd., Cathcart  
Mavor & Coulson, Ltd. Glasgow  
Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester  
Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
Paul Matthew, & Co., Ltd. Levenford Works, DumbartonRees Roturbo Manufacturing Co., Ltd. Wolverhampton  
Royce Ltd. Trafford Park, Manchester  
Sandycroft, Ltd. Chester  
Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., B.C.  
Swedish General Electric, Ltd. 5, Chancery Lane, W.C. 2  
Thornycroft J. I., & Co., Ltd. 10, Grosvenor Place, S.W. 1**Electric Motors.**Allen W. H., Son & Co., Ltd. Bedford  
Beyer, Peacock & Co., Ltd. Gorton Foundry, Manchester  
Booth Joseph, & Bros., Ltd. Rodley, Leeds  
British Electric Plant Co., Ltd. 76, St. Vincent St., GlasgowBritish Thomson-Houston Co., Ltd. Rugby  
Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
Electric Construction Co., Ltd. 9, New Broad St., E.C. 2  
Electric Control, Ltd. Bridgeton, Glasgow  
Electromotors, Ltd. Openshaw, Manchester  
English Electric Co., Ltd. Queen's House, Kingsway, W.C. 2Ferguson C. J., & Sons 54, Chiswell St., E.C. 3  
Hall J. P., & Co., Ltd. Oldham  
Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
Higgs Bros. Sand Pits, Birmingham  
Holmes J. H., & Co. Newcastle-upon-TyneIndia Rubber, Gutta Percha & Telegraph Works Co., Ltd. Silvertown, B.  
International General Electric Co., Inc. Schenectady, New York, U.S.A.  
Jennings Edward J. West Walls, Newcastle-on-TyneJohnson & Phillips, Ltd. Charlton, S.E. 7  
Lancashire Dynamo & Motor Co., Ltd. Trafford Pk., Manchester  
Laurence, Scott, & Co., Ltd. NorwichMacfarlane Engineering Co., Ltd. Derby  
Malcolm & Allan, Ltd. 499, Eglington St., GlasgowMavor & Coulson, Ltd. 47, Broad St., Glasgow  
Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester  
Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
Picard A. 4, New Burlington St., W. 1

Purden Charles, Ltd. 262, Corporation St., Birmingham

Ransomes, Sims & Jefferies, Ltd. Ipswich  
Rees Roturbo Manufacturing Co., Ltd. Wolverhampton

**Electric Motors—Continued.**

Royce, Limited .. .. Trafford Park, Manchester  
 Sandycroft, Ltd. .. .. Chester  
 Sturtevant Engineering } 147, Queen Victoria St.,  
 Co., Ltd. .. .. } B.C.  
 Swedish General Electric,  
 Ltd. .. .. 5, Chancery Lane, W.C.2  
 Zoelhou J., Jzn. .. .. The Hague, Holland

**Electric Tools.**

Campbell & Isherwood,  
 Ltd. .. .. Bootle, nr. Liverpool  
 Consolidated Pneumatic } Egyptian House, 170,  
 Tool Co., Ltd. .. .. } Piccadilly, W. 1  
 Shaw John, & Sons (Wol-  
 verhampton), Ltd. .. .. Wolverhampton  
 Westminster Tool & Electric } 116 Putney Bridge Rd.,  
 Company .. .. } Putney, S.W. 15  
 White, Jacoby & Co., Ltd. Bayham Place, Camden  
 Town, N.W. 1

Witton-Kraemer Electric  
 Tool & Hoist Works .. .. Witton, Birmingham

**Electrical Engineers.**

Allen W. H. Sons, & Co., Ltd. Bedford  
 Barry Henry, & Cook, Ltd. Aberdeen  
 Beyer, Peacock & Co., Ltd. Manchester  
 Brecknell, Munro & Rogers,  
 Ltd. .. .. Thrissell St., Bristol  
 British Insulated & Helsby  
 Cables, Ltd. .. .. Prescott, Lancashire  
 British Thomson-Houston  
 Co., Ltd. .. .. Rugby  
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
 Consolidated Construction } 9, Cloak Lane, Cannon  
 Co., Ltd. .. .. } St., E.C. 4  
 Electric Control, Ltd. .. .. Bridgeton, Glasgow  
 Electromotors, Ltd. .. .. Openshaw, Manchester  
 English Electric Co., Ltd. Queen's House, Kings-  
 way, W.C. 2  
 General Electric Co., Ltd. Magnet House, Kings-  
 way, W.C. 2  
 Hall J. P., & Co., Ltd. .. .. Oldham  
 Hartnell Wilson, & Co., Ltd. Kirkstall Rd., Leeds  
 Hayward-Tyler & Co., Ltd. 99, Queen Victoria St.,  
 B.C.  
 Higgs, Bros. .. .. Sand Pits, Birmingham  
 Holmes J. H., & Co. .. .. Newcastle-upon-Tyne  
 Igranie Electric Co., Ltd. 147, Queen Victoria St.,  
 India Rubber, Gutta Percha } [B.C.]  
 & Telegraph Works Co.,  
 Ltd. .. .. Silvertown, B.  
 Johnson & Phillips, Ltd. Charlton, S.E. 7  
 Lancashire Dynamo & } Trafford Park, Man-  
 Motor Co., Ltd. .. .. } chester  
 Laurence, Scott, & Co., Ltd. Norwich  
 Mavor & Coulson, Ltd. .. .. 47, Broad St., Glasgow  
 Metropolitan-Vickers Elec- } Trafford Park, Man-  
 trical Co., Ltd. .. .. } chester  
 Parsons C. A., & Co., Ltd. Newcastle-on-Tyne  
 Rees Roturbo Manufactur-  
 ing Co., Ltd. .. .. Wolverhampton  
 Royce, Ltd. .. .. Trafford Park, Manchester  
 Sandycroft, Ltd. .. .. Chester  
 Swedish General Electric,  
 Ltd. .. .. 5, Chancery Lane, W.C.2  
 Westminster Tool & Electric } 116 Putney Bridge Rd.,  
 Company .. .. } Putney, S.W. 15

**Electroplating, Lacquering, Bronzing, &c.**  
 Craddock Walter .. .. 17 & 19, Brook St.,  
 London Rd., Man-  
 chester

**Elevators (Grain, Coal, &c.).—(See also Coal Handling Plant, and Conveyors & Elevators.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Barry Henry, & Cook, Ltd. Aberdeen  
 Bennis Ed., & Co., Ltd. .. Bolton  
 Coles H. J., Ltd. .. .. London Crane Works,  
 Derby  
 Conveyor & Elevator Co. .. Accrington, Lancashire  
 East Ferry Road Engineer-  
 ing Works Co., Ltd. .. Millwall, B.  
 Fraser & Chalmers En-  
 gineering Works .. .. Erith, Kent  
 Head, Wrightson & Co., Ltd. Thornaby-on-Tees  
 Heenan & Froude, Ltd. .. Worcester  
 Jeffrey Mfg. Co. .. .. Columbus, Ohio, U.S.A.  
 Marsden H. R., Ltd. .. .. Soho Foundry, Leeds  
 Pott, Cassels & Williamson Motherwell, nr. Glasgow  
 Priestman Bros., Ltd. .. 28, Victoria St., S.W. 1  
 Reddaway F., & Co., Ltd. Pendleton, Manchester  
 Rownsdon, Drew } & 225, Upper Thames St.,  
 Clydesdale, Ltd. .. .. } E.C.4  
 Smidth F. L., & Co., Ltd. 20, Essex St., W.C. 2  
 Smulders A. F. .. .. Schiedam, Holland  
 Steel Belt Conveyors, Ltd. Birmingham

**Emery and Emery Cloth, &c.**

Oakey, John, & Sons, Ltd. Westminster Bridge Rd.,  
 S.B.  
 Rownsdon, Drew } & 225, Upper Thames St.,  
 Clydesdale, Ltd. .. .. } E.C.4

**Emery Grinding & Polishing Machinery.—(See Grinding and Polishing Machinery.)****Emery Wheels.**

Buck & Hickman, Ltd. .. 2 & 4, Whitechapel Rd.,  
 E.1  
 Carborundum Co., Ltd. .. Trafford Park, Man-  
 chester  
 Churchill Chas., & Co., Ltd. 9-15, Leonard St., E.C.2  
 Luke & Spencer, Ltd. .. Canal Engineering Works,  
 Altrincham  
 Morton & Weaver .. .. Cox St., Coventry  
 Rownsdon, Drew } & 225, Upper Thames St.,  
 Clydesdale, Ltd. .. .. } E.C.4  
 Sterne L., & Co., Ltd. .. Crown Ironworks, Glasgow  
 Tattersall A. A., & Co. .. Blackburn  
 Universal Grinding Wheel } Universal Works, Staf-  
 Co., Ltd. .. .. } ford

**Engine and Boiler Fittings.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Barclay Andrew, Sons & } Caledonia Works, Kil-  
 Co., Ltd. .. .. } maroock  
 Bell's United Asbestos Co.,  
 Ltd. .. .. 593, Southwark St., S.B.  
 Blakeborough J., & Sons, } Brighouse, Yorks.  
 Ltd. .. .. }  
 Blundell's London Copper } West India Dock Road,  
 & Brass Works (1910), Ltd. } Limehouse, E.  
 Clark George, & Sons (Hull), } Waterhouse Lane, Hull  
 Ltd. .. .. }  
 Green & Boulding, Ltd. .. 28, New Bridge St., E.C.  
 Hopkinson J., & Co., Ltd. .. Huddersfield  
 Lunken Company, Ltd. .. 35, Great Dover St.,  
 S.B.  
 Manning, Maxwell & Moore,  
 Inc. .. .. New York  
 McRobie John, & Sons .. 94, Elliot St., Glasgow  
 M'Neil C., Ltd. .. .. Kinning Park, Glasgow  
 Morton & Weaver .. .. Cox St., Coventry

**Engine and Boiler Fittings—Continued.**

|                                                 |                          |
|-------------------------------------------------|--------------------------|
| Pegler, Bros., & Co. (Glasgow), Ltd. . . . .    | Anderson, Glasgow        |
| Piggott Thos., & Co., Ltd. . . . .              | Springhill, Birmingham   |
| Royles Limited . . . . .                        | Irlam, nr. Manchester    |
| Russell John & Co., Ltd. . . . .                | Birmingham.              |
| Smith Srdney, & Sons (Nottingham), Ltd. . . . . | Nottingham               |
| Steven & Struthers . . . . .                    | Kelvinnahugh, Glasgow    |
| Stone J., & Co., Ltd. . . . .                   | 1A, Cockspur St., S.W. 1 |
| Tangyes Limited . . . . .                       | Birmingham               |
| Turnbull Alex., & Co., Ltd. . . . .             | Bishopbriggs, Glasgow    |
| United Brassfounders & Engineers, Ltd. . . . .  | Cornbrook, Manchester    |

**Engineers (Consulting and Inspecting).**

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| British Commercial Gas Association . . . . . | 47, Victoria St., S.W. 1                 |
| Brown, Herbert . . . . .                     | 51, Charles St., Cardiff                 |
| Brownlie & Green, Ltd. . . . .               | Church St., Cheetham, Manchester         |
| Davis B. J. . . . .                          | Gt. Eastern Rd., Stratford, E.           |
| Hilder Daw . . . . .                         | 9 & 10, Southampton St., Holborn, W.C. 1 |
| Maxted & Knott, Ltd. . . . .                 | Burnett Avenue, Hull                     |
| Progress Engineering Design Co. . . . .      | 66, Victoria St., S.W. 1                 |
| Semple, Robert . . . . .                     | 179, West George St., Glasgow            |

**Engines (Air).**

|                                       |                     |
|---------------------------------------|---------------------|
| Bailey Sir W. H., & Co., Ltd. . . . . | Salford, Manchester |
|---------------------------------------|---------------------|

**Engines (Blowing).—(See also Fans and Blowers and Ventilators.)**

|                                                   |                                     |
|---------------------------------------------------|-------------------------------------|
| Adamson, Daniel & Co., Ltd. . . . .               | Dukinfield                          |
| Davy Brothers, Ltd. . . . .                       | Sheffield                           |
| Drysdale & Co., Ltd. . . . .                      | Bon Accord Wks., Yoker, Glasgow, W. |
| Fraser & Chalmers Engineering Works . . . . .     | Erith, Kent                         |
| Fullerton, Hodgart & Barclay, Ltd. . . . .        | Paisley, Scotland                   |
| Gwynnes Engineering Co., Ltd. . . . .             | Hammersmith Ironwks., W.            |
| Metropolitan-Vickers Electrical Co., Ltd. . . . . | Trafford Park, Manchester           |

**Engines (Gas).**

|                                                   |                              |
|---------------------------------------------------|------------------------------|
| Allen, W. H., Son & Co., Ltd. . . . .             | Bedford                      |
| Anderson-Grice Co., Ltd. . . . .                  | Carnoustie, Scotland         |
| Beardmore W., & Co., Ltd. . . . .                 | Glasgow                      |
| Browett, Lindley & Co., Ltd. . . . .              | Patricroft, Manchester       |
| Burmeister & Wain, Ltd. . . . .                   | Copenhagen, Denmark          |
| Cameron John, Ltd. . . . .                        | Salford, Manchester          |
| Campbell Gas Eng. Co., Ltd. . . . .               | Halifax, England             |
| Crossley Bros., Ltd. . . . .                      | Manchester                   |
| Davey, Paxman & Co., Ltd. . . . .                 | Chichester                   |
| Dudbridge Ironworks, Ltd. . . . .                 | Stroud, Gloucestershire      |
| Fielding & Platt, Ltd. . . . .                    | Atlas Works, Gloucester      |
| Gardner L., & Sons, Ltd. . . . .                  | Patricroft, Manchester       |
| Haslam Foundry & Engineering Co., Ltd. . . . .    | Derby                        |
| Hindley B. S., & Sons . . . . .                   | 11, Queen Victoria St., E.C. |
| Keighley Gas & Oil Engine Co., Ltd. . . . .       | Imperial Works, Keighley     |
| Lilleshall Co., Ltd. . . . .                      | Oakengates, Shropshire       |
| Lister R. A., & Co., Ltd. . . . .                 | Dursley, Glos.               |
| Metropolitan-Vickers Electrical Co., Ltd. . . . . | Trafford Park, Manchester    |

**Engines (Gas)—Continued.**

|                                        |                                   |
|----------------------------------------|-----------------------------------|
| National Gas Engine Co., Ltd. . . . .  | Ashton - under - Lyne, Manchester |
| Premier Gas Engine Co., Ltd. . . . .   | Sandiacre, Nottingham             |
| Robson John (Shipley), Ltd. . . . .    | Shipley, Yorks.                   |
| Ruston & Hornsby, Ltd. . . . .         | Lincoln                           |
| Smulders A. F. . . . .                 | Schiedam, Holland                 |
| Stewart Duncan, & Co., Ltd. . . . .    | London Rd. Ironworks, Glasgow     |
| Sulzer Brothers . . . . .              | 31, Bedford Sq., W.C. 1           |
| Tangyes Limited . . . . .              | Birmingham                        |
| Thornycroft J. I., & Co., Ltd. . . . . | 10, Grosvenor Place, S.W. 1       |
| Vickers, Ltd. . . . .                  | Barrow-in-Furness                 |

**Engines (Locomotive).**

|                                              |                                           |
|----------------------------------------------|-------------------------------------------|
| American Steel Export Co. . . . .            | Woolworth Building, New York, U.S.A.      |
| Armstrong Sir W. G., & Co., Ltd. . . . .     | 8, Great George St., S.W. 1               |
| Avonside Engine Co., Ltd. . . . .            | Bristol                                   |
| Bagnall W. G., Ltd. . . . .                  | Stafford                                  |
| Baldwin Locomotive Wks. . . . .              | 34, Victoria St., S.W.                    |
| Barclay Andrew, Sons & Co., Ltd. . . . .     | Kilmarnock, N.B.                          |
| Beyer, Peacock & Co., Ltd. . . . .           | Manchester                                |
| Fowler J., & Co. (Leeds), Ltd. . . . .       | Leeds                                     |
| Grant, Ritchie & Co., Ltd. . . . .           | Kilmarnock                                |
| Hawthorn R. & W., Leslie & Co., Ltd. . . . . | Newcastle-on-Tyne                         |
| Hudswell, Clarke & Co., Ltd. . . . .         | Leeds                                     |
| Hunslet Engine Co., Ltd. . . . .             | Leeds                                     |
| Kilmarnock Engineering Co., Ltd. . . . .     | 10, Coleman St., E.C. 2                   |
| Manning, Wardle & Co., Ltd. . . . .          | Boyne Engine Wks., Leeds                  |
| Motor Rail & Tram Car Co., Ltd. . . . .      | Bedford                                   |
| North British Locomotive Co., Ltd. . . . .   | 110, Flemington St., Springfield, Glasgow |
| Peckett & Sons, Ltd. . . . .                 | Atlas Locomotive Works, Bristol           |
| Ruston & Hornsby, Ltd. . . . .               | Sheaf Ironworks, Lincoln                  |
| Stephenson Robert, & Co., Ltd. . . . .       | Darlington                                |
| Wonham, Bates & Goode, Inc. . . . .          | 3, London Wall Buildings, E.C.            |
| Yorkshire Engine Co., Ltd. . . . .           | 16, Finsbury Circus, E.C.                 |

**Engines (Marine).**

|                                                    |                                        |
|----------------------------------------------------|----------------------------------------|
| Ailsa Shipbuilding Co., Ltd. . . . .               | Troon, N.B.                            |
| Armstrong, Sir W. G., & Co., Ltd. . . . .          | 8, Great George St., S.W. 1            |
| Burmeister & Wain, Ltd. . . . .                    | Copenhagen, Denmark                    |
| Campbell & Calderwood . . . . .                    | Soho Works, Paisley, Scotland          |
| Chaplin Alex., & Co. . . . .                       | Govan, Glasgow                         |
| Cochran & Co. (Annan), Ltd. . . . .                | Annan, N.B.                            |
| Day, Summers & Co., Ltd. . . . .                   | Southampton                            |
| Doxford William, & Sons, Ltd. . . . .              | Sunderland                             |
| Fawcett, Preston & Co., Ltd. . . . .               | Liverpool                              |
| Fleming & Ferguson, Ltd. . . . .                   | Paisley, N.B.                          |
| Hawthorn R. & W., Leslie & Co., Ltd. . . . .       | Newcastle-on-Tyne                      |
| Howden Overseas Trading Co., Ltd. . . . .          | 105, St. Vincent St., Glasgow          |
| Lobnitz & Co., Ltd. . . . .                        | Renfrew, Scotland                      |
| McKie & Baxter . . . . .                           | Govan, Glasgow                         |
| Mumford A. G., Ltd. . . . .                        | Colchester                             |
| North-Eastern Marine Engineering Co., Ltd. . . . . | Northumberland Works, Wallsend-on-Tyne |
| Paul Matthew, & Co., Ltd. . . . .                  | Dumbarton                              |

**Engines (Marine).—Continued.**

|                                         |    |                                |
|-----------------------------------------|----|--------------------------------|
| Plenty & Son, Ltd.                      | .. | Newbury, Berks                 |
| Richardsons, Westgarth & Co., Ltd.      | .. | Hartlepool Engine Wks., [gow   |
| Ross & Duncan                           | .. | Whitefield Works, Glas-        |
| Rowan David, & Co.                      | .. | 231, Elliott St., Glasgow      |
| Savery T. A. & Co., Ltd.                | .. | Birmingham                     |
| Schneider & Co.                         | .. | 30, Victoria St., S.W. 1       |
| Simons W. & Co., Ltd.                   | .. | Renfrew, N.B.                  |
| Smit L. & Zoons                         | .. | Kinderdijk, Holland            |
| Stewart Duncan, & Co., Ltd.             | .. | Glasgow                        |
| Sulzer Brothers                         | .. | 31, Bedford Sq., W.C. 1        |
| Sun Shipbuilding Co.                    | .. | 1428 So. Penn Sq., Phila-      |
|                                         |    | delphia, Pa., U.S.A.           |
| Thornycroft J. I. & Co., Ltd.           | .. | Southampton                    |
| Vickers Limited                         | .. | Barrow-in-Furness              |
| Vickers-Petters, Ltd.                   | .. | 73, Queen Victoria St., E.C. 4 |
| Vosper & Co., Ltd.                      | .. | Portsmouth                     |
| Wallend Slipway & Engineering Co., Ltd. | .. | Wallend                        |
| White J. Samuel, & Co., Ltd.            | .. | East Cowes, Isle of Wight      |
| Yarrow & Co., Ltd.                      | .. | Glasgow                        |

**Engines (Oil).**

|                                              |    |                                              |
|----------------------------------------------|----|----------------------------------------------|
| Agricultural & General Engineers, Ltd.       | .. | Central House, Kings-                        |
| Allen W.H., Son & Co., Ltd.                  | .. | way, W.C. 2                                  |
| Armstrong Sir W. G.                          | .. | Bodford                                      |
| Whitworth Co., Ltd.                          | .. | 8, Great George St., S.W. 1                  |
| Aster Engineering Co. (1913) Ltd.            | .. | Wembley, Middlesex                           |
| Atlas Diesel Co., Ltd.                       | .. | 35, Surrey St., W.C. 2                       |
| Beardmore W. & Co., Ltd.                     | .. | Glasgow                                      |
| Belliss & Morcom, Ltd.                       | .. | Ledsam St. Works, Bir-                       |
|                                              |    | mingham                                      |
| Bergius Launch & Engine Co., Ltd.            | .. | 254, Dobbie's Loan, Glas-                    |
| Blackstone & Co., Ltd.                       | .. | gow                                          |
| Broom & Wade, Ltd.                           | .. | Rutland Wks., Stamford                       |
| Burmeister & Wain, Ltd.                      | .. | High Wycombe                                 |
| Campbell Gas Eng. Co., Ltd.                  | .. | Copenhagen, Denmark                          |
| Carels Diesel & Steam Engines (London), Ltd. | .. | Halfax, England                              |
| Cole, Marchant & Morley, Ltd.                | .. | Carlton House, Regent St., S.W. 1            |
| Consolidated Pneumatic Tool Co., Ltd.        | .. | Bradford                                     |
| Crossley Bros., Ltd.                         | .. | Egyptian House, 170, Piccadilly, W. 1        |
| Doxford William, & Sons, Ltd.                | .. | Manchester                                   |
| Dudbridge Ironworks, Ltd.                    | .. | Sunderland                                   |
| English Electric Co., Ltd.                   | .. | Stroud, Gloucestershire                      |
| Fielding & Platt, Ltd.                       | .. | Queen's House, Kings-                        |
| Gardner L. & Sons, Ltd.                      | .. | way, W.C. 2                                  |
| Hamworthy Engineering Co., Ltd.              | .. | Gloucester                                   |
| Handley Page, Limited                        | .. | Patricroft, Manchester                       |
| Hardy & Padmore, Ltd.                        | .. | 76, Victoria St., S.W. 1                     |
| Heath & Serena                               | .. | Croydon, Surrey                              |
|                                              |    | Worcester                                    |
| Hick, Hargreaves & Co., Ltd.                 | .. | Carlton House, Regent St., S.W. 1            |
| Keighley Gas & Oil Engine Co., Ltd.          | .. | Bolton                                       |
| Lister, R. A. & Co., Ltd.                    | .. | Imperial Works, Keighley                     |
| Maclaren Brothers, Ltd.                      | .. | Dursley                                      |
| Marshall, Sons & Co., Ltd.                   | .. | 24, St. Vincent Place, Gainsborough [Glasgow |
| Mirrlees, Bickerton & Day, Ltd.              | .. | Hazel Grove, near Stock-                     |
|                                              |    | port                                         |

**Engines (Oil).—Continued.**

|                                             |    |                                        |
|---------------------------------------------|----|----------------------------------------|
| Mirrlees Watson Co., Ltd.                   | .. | Scotland St., Glasgow                  |
| National Gas Engine Co., Ltd.               | .. | Ashton-under-Lyne, Man-                |
|                                             |    | chester                                |
| Normand Augustin                            | .. | 67, Rue du Perrey, Le                  |
|                                             |    | Havre, France                          |
| Perman & Co., Ltd.                          | .. | 82 & 83, Fenchurch St., E.C. 3         |
| Petters Limited                             | .. | Yeovil                                 |
| Plenty & Son, Ltd.                          | .. | Newbury, Berkshire                     |
| Reader E. & Sons                            | .. | Phoenix Wks., Cremorne St., Nottingham |
| Reavell & Co., Ltd.                         | .. | Ipswich                                |
| Robey & Co., Ltd.                           | .. | Lincoln                                |
| Robson John (Shipley), Ltd.                 | .. | Shipley, Yorks.                        |
| Ruston & Hornsby, Ltd.                      | .. | Lincoln and Grantham                   |
| Schneider & Co.                             | .. | 30, Victoria St., S.W. 1               |
| Smulders A. F.                              | .. | Schiedam, Holland                      |
| Sulzer Brothers                             | .. | 31, Bedford Sq., W.C. 1                |
| Tangyes Limited                             | .. | Birmingham [S.W. 1                     |
| Thornycroft J.I. & Co., Ltd.                | .. | 10, Grosvenor Place,                   |
| Vickers, Ltd.                               | .. | Barrow-in-Furness                      |
| Vickers-Petters, Ltd.                       | .. | 117-123, Great Portland St., S.W. 1    |
| Vosper & Co., Ltd.                          | .. | Portsmouth                             |
| Westinghouse Brake & Saxon Signal Co., Ltd. | .. | 82, York Rd., King's Cross, N.         |
| White J. Samuel, & Co., Ltd.                | .. | East Cowes, Isle of Wight              |
| Wolesey Motors, Ltd.                        | .. | York St., Westminster, S.W.            |

**Engines (Petrol).**

|                                     |    |                                |
|-------------------------------------|----|--------------------------------|
| Belliss & Morcom, Ltd.              | .. | Birmingham                     |
| Bergius Launch & Engine Co., Ltd.   | .. | 254, Dobbie's Loan, Glasgow    |
| Blackstone & Co., Ltd.              | .. | Rutland Wks., Stamford         |
| Handley Page Limited                | .. | Croydon, Surrey                |
| Hardy & Padmore, Ltd.               | .. | Worcester                      |
| Keighley Gas & Oil Engine Co., Ltd. | .. | Imperial Works, Keigh-         |
|                                     |    | ley                            |
| Lister R. A. & Co., Ltd.            | .. | Dursley                        |
| MacLaren Brothers, Ltd.             | .. | 24, St. Vincent Place, Glasgow |
| Vosper & Co., Ltd.                  | .. | Portsmouth                     |

**Engines (Portable).**

|                                  |    |                             |
|----------------------------------|----|-----------------------------|
| Blackstone & Co., Ltd.           | .. | Rutland Works, Stamford     |
| Davey, Paxman & Co., Ltd.        | .. | Colchester                  |
| Garrett R. & Sons, Ltd.          | .. | Leiston Works, Suffolk      |
| Marshall, Sons & Co., Ltd.       | .. | Gainsborough                |
| Piggott Thos., & Co., Ltd.       | .. | Springhill, Birmingham      |
| Ransomes, Sims & Jefferies, Ltd. | .. | Ipswich                     |
| Robey & Co., Ltd.                | .. | Lincoln                     |
| Ruston & Hornsby, Ltd.           | .. | Lincoln and Grantham        |
| Smedley Bros., Ltd.              | .. | Belper, Derbyshire          |
| Thornycroft J.I. & Co., Ltd.     | .. | 10, Grosvenor Place, S.W. 1 |

**Engines (Pumping).**

|                                  |    |                                         |
|----------------------------------|----|-----------------------------------------|
| Bailey Sir W. H. & Co., Ltd.     | .. | Salford, Manchester                     |
| Barclay Andrew, Sons & Co., Ltd. | .. | Caledonia Wks., Kilmar-                 |
|                                  |    | nock, Scotland                          |
| Berry Henry, & Co., Ltd.         | .. | Croydon Works, Leeds                    |
| Bever, Durling & Co., Ltd.       | .. | Bradford                                |
| Caird & Rayner                   | .. | 777, Commercial Rd., Limehouse, E. [gow |
| Carruthers J. H. & Co., Ltd.     | .. | Polmadie Ironwks., Glas-                |
| Clarke, Chapman & Co., Ltd.      | .. | Gateshead-on-Tyne                       |
| Davey, Paxman & Co., Ltd.        | .. | Colchester                              |
| Drysdale & Co., Ltd.             | .. | Bon Accord Wks., Yoker, Glasgow, W.     |

**Engines (Pumping).—Continued.**

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| East Ferry Road Engineering Works Co., Ltd. | Millwall, B.                             |
| Fleming & Ferguson, Ltd.                    | Paisley, N.B.                            |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley |
| Glenfield & Kennedy, Ltd.                   | Kilmarnock, N.B.                         |
| Gwynnes Engineering Co., Ltd.               | Hammersmith Ironwks., W.                 |
| Hathorn, Davey & Co., Ltd.                  | Leeds                                    |
| Manlove, Alliott & Co., Ltd.                | Nottingham                               |
| Musgrave Bros.                              | Crown Point Fndry, Leeds                 |
| Pratchitt Bros.                             | Denton Ironwks., Carlisle                |
| Pulsometer Engineering Co., Ltd.            | Nine Elms Ironworks, Reading             |
| Rees Roturbo Manufacturing Co., Ltd.        | Wolverhampton                            |
| Rice & Co. (Leeds), Ltd.                    | Elland Rd., Leeds                        |
| Tangyes Limited                             | Birmingham                               |
| Worthington - Simpson, Ltd.                 | Queen's House, Kingsway, W.C.2           |
| Yates & Thom, Ltd.                          | Canal Works, Blackburn                   |

**Engines (Stationary).**

|                                              |                                     |
|----------------------------------------------|-------------------------------------|
| Agricultural & General Engineers, Ltd.       | Central House, Kingsway, W.C.2      |
| Allen W. H. Son, & Co., Ltd.                 | Bedford                             |
| Alley & Macellan, Ltd.                       | Sentinel Works, Glasgow             |
| Anderson Foundry Co., Ltd.                   | 100, Cheapside St., Glasgow         |
| Bailey Sir W. H., & Co., Ltd.                | Salford, Manchester                 |
| Belliss & Morcom, Ltd.                       | Birmingham                          |
| Bever, Doring & Co., Ltd.                    | Bowling Ironworks, Bradford         |
| Brotherhood P., Ltd.                         | Peterborough.                       |
| Browett, Lindley & Co. Ltd.                  | Patricroft, Manchester              |
| Carels Diesel & Steam Engines (London), Ltd. | Carlton House, Regent St., S.W.1    |
| Chaplin Alex., & Co., Ltd.                   | Govan, Glasgow                      |
| Clarke, Chapman & Co., Ltd.                  | Gateshead-on-Tyne                   |
| Cole, Marchent & Morley, Ltd.                | Bradford.                           |
| Davey, Paxman & Co., Ltd.                    | Colchester                          |
| Davy Bros., Ltd.                             | Sheffield                           |
| Donkin Co., Ltd. (The Bryan)                 | Chesterfield                        |
| Douglas & Grant, Ltd.                        | Kirkcaldy, N.B.                     |
| Drysdale & Co., Ltd.                         | Bon Accord Wks., Yoker, Glasgow, W. |

|                                             |                                          |
|---------------------------------------------|------------------------------------------|
| East Ferry Road Engineering Works Co., Ltd. | Millwall, B.                             |
| Fawcett, Preston & Co., Ltd.                | Liverpool                                |
| Fowler J., & Co. (Leeds), Ltd.              | Leeds                                    |
| Fullerton, Hodgart & Barclay, Ltd.          | Vulcan Foundry and Engine Works, Paisley |
| Galloways, Ltd.                             | Manchester                               |
| Garrett R., & Sons, Ltd.                    | Leiston Works, Suffolk                   |
| Grantham Boiler & Crank Co., Ltd.           | Grantham                                 |
| Gwynnes Engineering Co., Ltd.               | Hammersmith Ironwks., W.                 |
| Handley Page Limited                        | Croydon, Surrey                          |
| Harvey Engineering Co., Ltd.                | Scotland St. Engine Wks., Glasgow        |
| Hathorn, Davey & Co., Ltd.                  | Leeds                                    |
| Heenan & Froude, Ltd.                       | Worcester                                |
| Hick, Hargreaves & Co., Ltd.                | Bolton                                   |
| Hindley E. S., & Sons                       | 11, Queen Victoria St., E.C.             |
| Howden James, & Co., Ltd.                   | Scotland St., Glasgow                    |
| Lilleshall Co., Ltd.                        | Oakengates, Shropshire                   |

**Engines (Stationary)—Continued.**

|                                  |                                               |
|----------------------------------|-----------------------------------------------|
| Manlove, Alliott & Co., Ltd.     | Nottingham                                    |
| Marshall, Sons & Co., Ltd.       | Gainsborough                                  |
| Mirrlees Watson Co., Ltd.        | Scotland St., Glasgow                         |
| Musgrave & Co., Ltd.             | St. Ann's Ironwks., Belfast                   |
| Newton, Bean & Mitchell          | Dudley Hill, Bradford                         |
| Parsons C. A., & Co., Ltd.       | Newcastle-on-Tyne                             |
| Paul Matthew & Co., Ltd.         | Dumbarton                                     |
| Peckett & Sons, Ltd.             | Atlas Eng. Works, Bristol                     |
| Ransome A., & Co., Ltd.          | Newark-on-Trent                               |
| Ransomes, Sims & Jefferies, Ltd. | Ipswich                                       |
| Reader B., & Sons                | Phoenix Wks., Cremorne St., Nottingham        |
| Reavell & Co., Ltd.              | Ipswich                                       |
| Robey & Co., Ltd.                | Lincoln                                       |
| Russell Geo., & Co., Ltd.        | Motherwell, nr. Glasgow                       |
| Ruston & Hornsby, Ltd.           | Grantham                                      |
| Sandycroft, Ltd.                 | Chester                                       |
| Shanks Thomas, & Co.             | Johnstone, N.B.                               |
| Sisson W., & Co., Ltd.           | Gloucester                                    |
| Smedley Bros., Ltd.              | Beiper, Derbyshire                            |
| Stewart Duncan, & Co., Ltd.      | Glasgow                                       |
| Sulzer Bros.                     | 31, Bedford Sq., W.C.1                        |
| Sun Shipbuilding Co.             | 1428 So., Penn Sq., Philadelphia, Pa., U.S.A. |
| Tangyes Limited                  | Birmingham                                    |
| Taylor & Challen, Ltd.           | Birmingham                                    |
| Thornycroft J. I., & Co., Ltd.   | 10, Grosvenor Place, S.W.1                    |
| Tullis D. & J., Ltd.             | Glasgow                                       |
| Walker Bros. (Wigan), Ltd.       | Pagefield Iron Works, Wigan                   |
| Yates & Thom, Ltd.               | Canal Works, Blackburn                        |

**Engines (Traction).**

|                                  |                             |
|----------------------------------|-----------------------------|
| Aveling & Porter, Ltd.           | Rochester                   |
| Avonside Engine Co., Ltd.        | Bristol                     |
| Clayton & Shuttleworth, Ltd.     | Lincoln                     |
| Davey, Paxman & Co., Ltd.        | Colchester                  |
| Fowler J., & Co. (Leeds), Ltd.   | Leeds                       |
| Garrett R., & Sons, Ltd.         | Leiston Works, Suffolk      |
| Marshall, Sons & Co., Ltd.       | Gainsborough                |
| Ransomes, Sims & Jefferies, Ltd. | Ipswich                     |
| Robey & Co., Ltd.                | Lincoln                     |
| Ruston & Hornsby, Ltd.           | Lincoln and Grantham        |
| Thornycroft J. I., & Co., Ltd.   | Basingstoke                 |
| Wolseley Motors, Ltd.            | York St., Westminster, S.W. |

**Engines (Winding).—(See also Haulage Plants.)**

|                                             |                                      |
|---------------------------------------------|--------------------------------------|
| Barclay Andrew, Sons & Co., Ltd.            | Caledonia Wks., Kilmarnock, Scotland |
| Bever, Doring & Co., Ltd.                   | Bowling Ironwks., Bradford           |
| Carron Co.                                  | Carron, Stirlingshire                |
| Chaplin Alex., & Co., Ltd.                  | Govan, Glasgow                       |
| Clarke, Chapman & Co., Ltd.                 | Gateshead-on-Tyne                    |
| Davey, Paxman & Co., Ltd.                   | Colchester                           |
| East Ferry Road Engineering Works Co., Ltd. | Millwall, B.                         |
| Fawcett, Preston & Co., Ltd.                | Liverpool                            |
| Fraser & Chalmers Engineering Works         | Erith, Kent                          |
| Galloways, Ltd.                             | Manchester                           |

**Engines (Winding)—Continued.**

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Grant, Ritchie & Co., Ltd.        | Kilmarnock                        |
| Heenan & Froude, Ltd.             | Worcester                         |
| Lidgerwood Ltd.                   | Friars House, New Broad St., E.C. |
| Marshall, Sons & Co., Ltd.        | Gainsborough                      |
| Napier Bros., Ltd.                | 130, Hyde Park St., Glasgow, W.   |
| Prattich Bros.                    | Denton Ironworks, Carlisle        |
| Ransomes, Sims, & Jefferies, Ltd. | Ipswich                           |
| Robey & Co., Ltd.                 | Lincoln                           |
| Ruston & Hornsby, Ltd.            | Sheaf Ironworks, Lincoln          |
| Sandycroft, Ltd.                  | Chester                           |
| Tangyes Limited                   | Birmingham                        |
| Uxside Iron Works                 | Newport, Mon.                     |
| Walker Bros. (Wigan), Ltd.        | Pagefield Iron Works, Wigan       |
| Yates & Thom, Ltd.                | Canal Works, Blackburn            |

**Evaporators.—(See also Distilling (Water) Apparatus.)**

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Blair, Campbell, & McLean, Ltd.            | Woodville St., Govan, Glasgow            |
| Caird & Rayner                             | 777, Commercial Rd., B.                  |
| Forth Shipbuilding & Engineering Co., Ltd. | Govan, Glasgow                           |
| Fullerton, Hodgart and Barclay, Ltd.       | Vulcan Foundry and Engine Works, Paisley |
| Harvey Engineering Co., Ltd.               | Scotland St., Engine Works, Glasgow      |
| Kirkaldy John, Ltd.                        | 101, Leadenhall St., E.C. 3              |
| Manlove, Alliott & Co., Ltd.               | Nottingham                               |
| Mirrlees Watson Co., Ltd.                  | Scotland St., Glasgow                    |
| Richardsons, Westgarth & Co., Ltd.         | Hartlepool                               |
| Royles, Ltd.                               | Irlam, nr. Manchester                    |
| Weir G. & J., Ltd.                         | Cathcart, Glasgow                        |

**Excavators.**

|                              |                                                   |
|------------------------------|---------------------------------------------------|
| Bucyrus Co.                  | 13, Victoria St., Westminster, S.W.               |
| Chaplin Alex., & Co., Ltd.   | Govan, Glasgow                                    |
| Coles H. J., Ltd.            | London Crane Wks., Derby                          |
| Fizee Ltd.                   | Haarlem, Holland                                  |
| Fleming & Ferguson, Ltd.     | Paisley, N.B.                                     |
| Lonblitz & Co., Ltd.         | Renfrew, Scotland                                 |
| Priestman Bros., Ltd.        | 28, Victoria St., S.W. 1                          |
| Rose, Downs & Thompson, Ltd. | Old Foundry, Hull                                 |
| Ruston & Hornsby, Ltd.       | Sheaf Ironworks, Lincoln                          |
| Smidth F. L., & Co., Ltd.    | 20, Essex St., W.C. 2                             |
| Smulders A. F.               | Schiedam, Rotterdam, Holland                      |
| Western Wheeled Scraper Co.  | Aurora, Illinois, U.S.A.                          |
| Westwood, Joseph & Co., Ltd. | Napier Yard, Millwall, E. 1, Union St., Leicester |
| Whitaker D.                  | Horsforth, Leeds                                  |
| Whitakers (Engineers), Ltd.  |                                                   |

**Exhausters.—(See also Gas Exhausters.)**

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Alldays & Onions, Ltd.           | Birmingham                            |
| British Vacuum Cleaner Co., Ltd. | Dept. 5/20, Parson's Green Lane, S.W. |
| Donkin Co., Ltd. (The Bryan)     | Chesterfield                          |

**Exhausters—Continued.**

|                                           |                      |
|-------------------------------------------|----------------------|
| Gwynnes Engineering Co., Ltd.             | 81, Cannon St., E.C. |
| Standard & Oswald Stott (Engineers), Ltd. | Leicester            |

**Expanded Metal.**

|                          |                                           |
|--------------------------|-------------------------------------------|
| Expanded Metal Co., Ltd. | York Mansion, York, St. Westminster, S.W. |
|--------------------------|-------------------------------------------|

**Fans and Blowers.—(See also Engines—Blowing, and Ventilators.)**

|                                           |                                        |
|-------------------------------------------|----------------------------------------|
| Alldays & Onions, Ltd.                    | Birmingham                             |
| Allen W. H., Sons, & Co., Ltd.            | Bedford                                |
| Barclay Andrew, Sons & Co., Ltd.          | Caledonia Wks., Kilmarnock, Scotland   |
| Brotherhood P., Ltd.                      | Peterborough                           |
| Churchill Chas., & Co., Ltd.              | 9 to 15, Leonard St., E.C.             |
| Davidson & Co., Ltd.                      | Sirocco Engineering Wks., Belfast      |
| Donkin Co., Ltd. (The Bryan)              | Chesterfield                           |
| Fraser & Chalmers Engineering Works       | Erith, Kent                            |
| Gunter W., & Sons                         | Central Works, Oldham                  |
| Gwynnes Engineering Co., Ltd.             | Hammersmith Ironworks, W.              |
| Heenan & Froude, Ltd.                     | Worcester                              |
| Howden James, & Co.                       | Scotland St., Glasgow                  |
| Keith James, & Blackman Co., Ltd.         | 27, Farrington Avenue, E.C.            |
| Murray, McVinnie & Co., Ltd.              | Mavisbank Quay, Glasgow                |
| Musgrave & Co., Ltd.                      | Belfast                                |
| Parsons C. A., & Co., Ltd.                | Newcastle-on-Tyne                      |
| Paul Matthew, & Co., Ltd.                 | Dumbarton                              |
| Reid John (London), Ltd.                  | 4, Lloyd's Avenue, E.C. 3              |
| Simon-Carves, Ltd.                        | Manchester                             |
| Standard & Oswald Stott (Engineers), Ltd. | Leicester                              |
| Sturtevant Engineering Co., Ltd.          | 147, Queen Victoria St., E.C.          |
| Sutcliffe Ventilating & Drying Co., Ltd.  | Manchester                             |
| Westminster Tool & Electric Co.           | 116 Putney Bridge Rd., Putney, S.W. 15 |

**Feed Check Valves (Combination).**

|                           |                          |
|---------------------------|--------------------------|
| Green & Boulding, Ltd.    | 28, New Bridge St., E.C. |
| Hopkinson J., & Co., Ltd. | Huddersfield             |
| Weir G. & J., Ltd.        | Cathcart, Glasgow        |

**Feed Water Filters.—(See also Filtering Apparatus.)**

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| Carruthers J. H., & Co., Ltd.                | Glasgow                                  |
| Crockatt, W., & Sons, Ltd.                   | 64, Darnley St., Glasgow                 |
| Griscom-Russell Co.                          | 95, West St., New York, U.S.A.           |
| Harris Patent Feed-Water Filter (1910), Ltd. | 24, Grainger St. West, Newcastle-on-Tyne |
| Ohio Body & Blower Co.                       | Cleveland, Ohio, U.S.A.                  |

**Feed Water Heaters.**

|                                            |                                |
|--------------------------------------------|--------------------------------|
| Bailey Sir W. H., & Co., Ltd.              | Salford, Manchester            |
| Caird & Rayner                             | 777, Commercial Rd., B.        |
| Clarke, Chapman & Co., Ltd.                | Gateshead-on-Tyne              |
| Forth Shipbuilding & Engineering Co., Ltd. | Govan, Glasgow                 |
| Griscom-Russell Co.                        | 95, West St., New York, U.S.A. |



**Feed Water Heaters—Continued.**

|                                            |    |                                        |
|--------------------------------------------|----|----------------------------------------|
| Hall J. P., & Sons                         | .. | Peterborough                           |
| North-Eastern Marine Engineering Co., Ltd. | .. | Northumberland Works, Wallsend-on-Tyne |
| Paterson Engineering Co., Ltd.             | .. | 21, Windsor House Kingsway, W.C. 2     |
| Royles, Ltd.                               | .. | Irlam, nr. Manchester                  |
| Tangyes, Ltd.                              | .. | Birmingham                             |
| Weir G. & J., Ltd.                         | .. | Cathcart, Glasgow                      |
| Worthington-Simpson, Ltd.                  | .. | Queen's House, Kingsway, W.C. 2        |
| Wright's Forge & Engineering Co., Ltd.     | .. | Tipton, Staffs.                        |

**Feed Water Regulators.**

|                                         |    |                             |
|-----------------------------------------|----|-----------------------------|
| Mumford A. G., Ltd.                     | .. | Colchester                  |
| Thornycroft J. I. & Co., Ltd.           | .. | Southampton                 |
| Warner Robert, & Co., (Engineers), Ltd. | .. | 14-16, Cockspur St., S.W. 1 |
| White J. Samuel, & Co., Ltd.            | .. | East Cowes, Isle of Wight   |
| Yarrow & Co., Ltd.                      | .. | Glasgow                     |

**Fencing.**

|                                |    |               |
|--------------------------------|----|---------------|
| Bayliss, Jones & Bayliss, Ltd. | .. | Wolverhampton |
|--------------------------------|----|---------------|

**Ferro Concrete.—(See Concrete—Reinforced.)****Fires.**

|                           |    |                            |
|---------------------------|----|----------------------------|
| Allen Edgar, & Co., Ltd.  | .. | Sheffield                  |
| Apex Steel Co., Ltd.      | .. | Sheffield                  |
| Cammell Laird & Co., Ltd. | .. | Sheffield                  |
| Firth Thos. & Sons, Ltd.  | .. | Norfolk Works, Sheffield   |
| Hadfields Limited         | .. | Hecla Works, Sheffield     |
| Howell & Co., Ltd.        | .. | Brook St. Works, Sheffield |
| Turton T., & Sons, Ltd.   | .. | Sheaf Works, Sheffield     |

**Filtering Apparatus.—(See also Feed-water Filters.)**

|                                      |    |                                                              |
|--------------------------------------|----|--------------------------------------------------------------|
| Buhring's Patent Water Purifying Co. | .. | 146A, Queen Victoria St. E.C.                                |
| Caird & Rayner                       | .. | 777, Commercial Rd., B. Carruthers J. H. & Co., Ltd. Glasgow |
| Cockburns, Ltd.                      | .. | Cardonald, Glasgow                                           |
| Griscom-Russell Co.                  | .. | 95, West St., New York, U.S.A.                               |

|                                              |    |                              |
|----------------------------------------------|----|------------------------------|
| Harris Patent Feed Water Filter (1910), Ltd. | .. | 82, Victoria St., S.W.       |
| Lipscombe, Fredk., & Co.                     | .. | 84, Albert Buildings, E.C. 4 |

|                                        |    |                                     |
|----------------------------------------|----|-------------------------------------|
| Manlove, Allott & Co., Ltd.            | .. | Nottingham                          |
| Paterson Engineering Co., Ltd.         | .. | 21, Windsor House, Kingsway, W.C. 2 |
| Pulsometer Engineering Co., Ltd.       | .. | Nine Elms Ironworks, Reading        |
| Royles, Ltd.                           | .. | Irlam, nr. Manchester               |
| United Water Softeners, Ltd.           | .. | Imperial House, Kingsway, W.C. 2    |
| Wells A. C., & Co.                     | .. | 102, Midland Rd., N.W.              |
| Wright's Forge & Engineering Co., Ltd. | .. | Tipton, Staffs.                     |

**Filters (Air).**

|                                        |    |                                 |
|----------------------------------------|----|---------------------------------|
| Davidson & Co., Ltd.                   | .. | Belfast                         |
| Heenan & Froude, Ltd.                  | .. | Worcester                       |
| Premier Cooler & Engineering Co., Ltd. | .. | Shalford, nr. Guildford, Surrey |
| Princepts & Co.                        | .. | Sheffield                       |

**Fire Bars.**

|                                  |    |                             |
|----------------------------------|----|-----------------------------|
| Barclay Andrew, Sons & Co., Ltd. | .. | Caledonia Works, Kilmarnock |
| Rose, Downs & Thompson, Ltd.     | .. | Old Foundry, Hull           |

**Fire Bricks.—(See Refractory Materials.)****Fire-Extinguishing Apparatus.**

|                                   |    |                                 |
|-----------------------------------|----|---------------------------------|
| Blakeborough J., & Sons, Ltd.     | .. | Brighouse, Yorks.               |
| British Fire Appliances Co., Ltd. | .. | 109, Victoria St., S.W. 1       |
| Guest & Chrimmes                  | .. | Rotherham                       |
| Ham, Baker & Co., Ltd.            | .. | Langley Green, Birmingham       |
| Merryweather & Sons, Ltd.         | .. | 61, Long Acre, W.C.             |
| Reddaway F., & Co., Ltd.          | .. | Pendleton, Manchester           |
| Worthington-Simpson, Ltd.         | .. | Queen's House, Kingsway, W.C. 2 |

**Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)****Forced and Induced Draught Apparatus.**

|                                           |    |                               |
|-------------------------------------------|----|-------------------------------|
| Alldays & Onions, Ltd.                    | .. | Birmingham                    |
| Bennis Ed., & Co., Ltd.                   | .. | Bolton                        |
| Davidson & Co., Ltd.                      | .. | Belfast                       |
| Davy Bros., Ltd.                          | .. | Sheffield                     |
| Heenan & Froude, Ltd.                     | .. | Worcester                     |
| Howden James, & Co., Ltd.                 | .. | Scotland St., Glasgow         |
| Keith James, & Blackman Co., Ltd.         | .. | 27, Farringdon Av., E.C.      |
| Mechans Limited                           | .. | Glasgow                       |
| Meldrums, Ltd.                            | .. | Timperley, nr. Manchester     |
| Musgrave & Co., Ltd.                      | .. | Belfast                       |
| Reid John (London), Ltd.                  | .. | 4, Lloyd's Avenue, E.C. 3     |
| Simon-Carves, Ltd.                        | .. | Manchester                    |
| Standard & Oswald Stott (Engineers), Ltd. | .. | Leicester                     |
| Sturtevant Engineering Co., Ltd.          | .. | 147, Queen Victoria St., B.C. |
| Utting S.                                 | .. | 82, Victoria St., S.W. 1      |

**Forges (Portable).**

|                                           |    |                               |
|-------------------------------------------|----|-------------------------------|
| Standard & Oswald Stott (Engineers), Ltd. | .. | Leicester                     |
| Sturtevant Engineering Co., Ltd.          | .. | 147, Queen Victoria St., B.C. |

**Forging Machines and Plant.**

|                                 |    |                                          |
|---------------------------------|----|------------------------------------------|
| Berry Henry, & Co., Ltd.        | .. | Croydon Works, Hunslet, Coventry [Leeds] |
| Brett's Patent Lifter Co., Ltd. | .. | Bangor Rd., Leith                        |
| Davis & Primrose, Ltd.          | .. | Sheffield                                |
| Davy Bros., Ltd.                | .. | Birmingham                               |
| Player W. & J.                  | .. | Elland Rd., Leeds                        |
| Rice & Co. (Leeds), Ltd.        | .. | Birmingham                               |
| Taylor & Challen, Ltd.          | .. | Birmingham                               |

**Forging Presses.—(See also Hydraulic Presses.)**

|                          |    |                                          |
|--------------------------|----|------------------------------------------|
| Berry Henry, & Co., Ltd. | .. | Croydon Works, Hunslet, Coventry [Leeds] |
| Davy Bros., Ltd.         | .. | Sheffield                                |
| Fielding & Platt, Ltd.   | .. | Gloucester                               |
| Hollings & Guest, Ltd.   | .. | Thimble Mill Lane, Birmingham            |

Aldays & Onions, Ltd. .. Birmingham  
Baker Joseph, Sons &  
Perkins, Ltd. .. .. 21, College Hill, E.C.

**Furnaces (Gas and Oil Heated).—Continued.**

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Beeston & Stevenson, Ltd.            | Llanelli, Carmarthen-shire      |
| Incandescent Heat Co., Ltd.          | Smethwick, Birmingham           |
| Power Gas Corporation, Ltd.          | Stockton-on-Tees                |
| Richmond Gas Stove & Meter Co., Ltd. | Academy St., Warrington         |
| Wincott, G. P., Ltd.                 | 180, Attercliffe Rd., Sheffield |

**Furnaces (Hardening).**

|                                      |                                 |
|--------------------------------------|---------------------------------|
| Beeston & Stevenson, Ltd.            | Llanelli, Carmarthen-shire      |
| Churchill C., & Co., Ltd.            | 9-15, Leonard St., B.C.         |
| Davis Furnace Co.                    | Diamond Foundry, Luton          |
| Gibbons Bros., Ltd.                  | Dudley, Worc.                   |
| Incandescent Heat Co., Ltd.          | Smethwick, Birmingham           |
| Power Gas Corporation, Ltd.          | Stockton-on-Tees                |
| Richmond Gas Stove & Meter Co., Ltd. | Academy St., Warrington         |
| Wincott G. P., Ltd.                  | 180, Attercliffe Rd., Sheffield |
| Wright John, & Co.                   | Rsex Wks., Aston, Birmingham    |

**Furniture and Fittings (Metal, &c.).****Flexible Plugs.**

|                                                 |                                  |
|-------------------------------------------------|----------------------------------|
| Lunken Co., Ltd.                                | 37, Great Dover St., S.B.        |
| National Boiler and General Insurance Co., Ltd. | St. Mary's Parsonage, Manchester |

**Galvanized Ironwork.**

|                          |                                       |
|--------------------------|---------------------------------------|
| Ash Joseph, & Son        | Rea St. South, Birm'gh'm              |
| Baldwins, Ltd.           | 3, St. Helen's Place, B.C.            |
| Braby Fred., & Co., Ltd. | Buston Rd., N.W.                      |
| Butterfield W. P., Ltd.  | Shipley, Yorks                        |
| Harvey G. A., & Co.      | Greenwich Metal Works, (London), Ltd. |
| Ramsay & Marshall, Ltd.  | Woolwich Rd., S.B. Birmingham         |

**Galvanizers.**

|                                         |                                       |
|-----------------------------------------|---------------------------------------|
| Ash Joseph, & Son                       | Rea St. South, Birm'gh'm              |
| Baldwins, Ltd.                          | 3, St. Helen's Pl., B.C.              |
| Braby Fred., & Co., Ltd.                | Buston Rd., N.W.                      |
| Harvey G. A., & Co.                     | Greenwich Metal Works, (London), Ltd. |
| Lysaght John, Ltd.                      | Woolwich Rd., S.B.                    |
| Wolverhampton Corrugated Iron Co., Ltd. | St. Vincent Ironworks, Bristol        |
|                                         | Ellesmere Port, nr. Birkenhead        |

**Galvanizing.—(Plant for).**

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Thompson Bros. (Bilston), Ltd. | Bradley Engineering and Boiler Works, Bilston |
|--------------------------------|-----------------------------------------------|

**Gas Compressors (High Pressure).**

|                        |                              |
|------------------------|------------------------------|
| Belliss & Morcom, Ltd. | Ledsam St. Works, Birmingham |
| Seagers Limited        | Dartford, Kent               |

**Gas Cylinders.**

|                             |              |
|-----------------------------|--------------|
| Chesterfield Tube Co., Ltd. | Chesterfield |
|-----------------------------|--------------|

**Gas Engines.—(See Engines, Gas.)****Gas Exhausters.—(See also Exhaustors.)**

|                              |                               |
|------------------------------|-------------------------------|
| Allen W. H. Sons & Co., Ltd. | Bedford                       |
| Donkin Co., Ltd. (The Bryan) | Chesterfield                  |
| Gwynnes, Ltd.                | 87, Cannon St., E.C.          |
| Simon-Carves, Ltd.           | Manchester                    |
| Sturtevant Eng. Co., Ltd.    | 147, Queen Victoria St., E.C. |

**Gas Producers.**

|                                    |                                  |
|------------------------------------|----------------------------------|
| Anderson-Grieco Co., Ltd.          | Carnoustie, Scotland             |
| Bellamy John, Ltd.                 | Millwall, E.                     |
| Cameron John, Ltd.                 | Salford, Manchester              |
| Campbell Gas Engine Co., Ltd.      | Halifax, England                 |
| Clayton Son, & Co., Ltd.           | Hunslet, Leeds                   |
| Crosley Bros., Ltd.                | Openshaw, Manchester             |
| Daniels T. H. & J., Ltd.           | Stroud, Glos.                    |
| Davey, Paxman & Co., Ltd.          | Colchester                       |
| Dowson & Mason Gas Plant Co., Ltd. | Levenshulme, Manchester          |
| Fickling & Platt, Ltd.             | Gloicester                       |
| Humphreys & Glasgow, Ltd.          | 38, Victoria St., S.W.           |
| Power Gas Corporation, Ltd.        | Stockton-on-Tees                 |
| Robson John (Shipley), Ltd.        | Shipley, Yorks.                  |
| Ruston & Hornsby, Ltd.             | Lincoln and Grantham             |
| Stewart Duncan, & Co., Ltd.        | London Rd. Ironworks, Birmingham |
| Tangyes Limited                    | (Glasgow)                        |
| Wincott G. P., Ltd.                | 180, Attercliffe Rd., Sheffield  |
| Wright John, & Co.                 | Aston, Birmingham                |

**Gas Works (Plant for).—(See also Coke Rams, and Exhaustors.)**

|                                     |                               |
|-------------------------------------|-------------------------------|
| Ashmore, Benson, Pease & Co., Ltd.  | Stockton-on-Tees              |
| Clarke, Chapman & Co., Ltd.         | Gateshead-on-Tyne             |
| Clayton Son, & Co., Ltd.            | Hunslet, Leeds                |
| Donkin Co., Ltd. (The Bryan)        | Chesterfield                  |
| Head, Wrightson & Co., Ltd.         | Thornaby-on-Tees              |
| Jenkins, W. J., & Co., Ltd.         | Beehive Works, Retford        |
| Low Temperature Carbonisation, Ltd. | 14 & 16, Cockspur St., S.W. 1 |
| Piggott Thos., & Co., Ltd.          | Springhill, Birmingham        |

**Gases (Oxygen, &c.).**

|                           |                          |
|---------------------------|--------------------------|
| Allen-Liversidge, Ltd.    | 106, Victoria St., S.W.  |
| British Oxygen Co., Ltd.  | Biverton St., S.W.       |
| Integral Oxygen Co., Ltd. | 38, Victoria St., S.W. 1 |

**Gases (Plant for Producing).**

|                                             |                            |
|---------------------------------------------|----------------------------|
| Power Gas Corporation, Ltd.                 | Stockton-on-Tees           |
| Sparklets & General Manufacturing Co., Ltd. | Angel Rd., Edmonton, N. 18 |

**Gauge Glasses.**

|                            |                           |
|----------------------------|---------------------------|
| Butterworth Bros., Ltd.    | Manchester                |
| Lunken Co., Ltd.           | 35, Great Dover St., S.B. |
| Tomey Joseph, & Sons, Ltd. | Aston, Birmingham         |

**Gauges (Pressure, Vacuum and Hydraulic).**

|                               |                            |
|-------------------------------|----------------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester        |
| Budenberg Gauge Co., Ltd.     | Broadheath, nr. Manchester |
| Dobbie, McInnes & Clyde, Ltd. | 57, Bothwell St., Glasgow  |
| Handley Page Limited          | Croydon, Surrey            |
| Hannan & Buchanan             | 75, Robertson St., Glasgow |
| Hopkinson J., & Co., Ltd.     | Huddersfield               |

**Gauges (Pressure, Vacuum and Hydraulic)—Continued**

|                                                     |                               |
|-----------------------------------------------------|-------------------------------|
| Lunken Co., Ltd. . . . .                            | 35, Great Dover St., S.E.     |
| Manning, Maxwell & Moore, Inc. . . . .              | New York                      |
| Negretti & Zambra . . . .                           | 38, Holborn Viaduct, E.C.     |
| Precision Gauges Ltd. . . .                         | Wrentham St., Birmingham      |
| Salter Geo., & Co., Ltd. . . .                      | West Bromwich                 |
| Smith Bros., & Co. (Hyson), Ltd. . . . .            | Nottingham                    |
| Société Genevoise d'Instruments de Physique . . . . | 95, Queen Victoria St., E.C.4 |
| United Brassfounders & Engineers, Ltd. . . . .      | Carnbrook, Manchester         |

**Gear Cutters.**

|                                                 |                                      |
|-------------------------------------------------|--------------------------------------|
| British Insulated & Helsby Cables, Ltd. . . . . | Prescot, Lancashire                  |
| Buck & Hickman, Ltd. . . .                      | 2 & 4, Whitechapel Rd., E.1          |
| Campbells & Hunter, Ltd. . .                    | Dolphin Foundry, Leeds               |
| Lang John, & Sons . . . .                       | Johnstone, nr. Glasgow               |
| Mikron, Ltd. . . . .                            | Madretsch, Bienne, Switzerland       |
| Power Plant Co., Ltd. . . .                     | West Drayton, Middlesex              |
| Reay Gearworks, Ltd. . . .                      | Gateshead-on-Tyne                    |
| Reid Gear Co. . . . .                           | Linwood, nr. Paisley                 |
| Tasker's Engineering Co., Ltd. . . . .          | Sheffield                            |
| Wallwork Henry, & Co., Ltd. . . . .             | Manchester                           |
| Wrigley B. G., & Co., Ltd. .                    | Foundry Lane Works, Soho, Birmingham |

**Gearing.—(See Wheels—Geared.)****Gearing (Speed Reducing).**

|                                                |                            |
|------------------------------------------------|----------------------------|
| Brown David, & Sons (Huddersfield), Ltd. . . . | Park Works, Huddersfield   |
| Citroën Gear Co., Ltd. . . .                   | 22, Buckingham Gate, S.W.1 |
| De Laval Steam Turbine Co. . . . .             | 150, Southampton Row, W.C. |
| Llewellyn's Machine Co. . . .                  | Bristol, England           |
| Power Plant Co., Ltd. . . .                    | West Drayton, Middlesex    |
| Reid Gear Co. . . . .                          | Linwood, nr. Paisley       |
| Turbine Gears, Ltd. . . . .                    | Hyde, Cheshire             |
| Variable Speed Gear, Ltd. . .                  | Broadway Court, S.W. 1     |
| Wallwork Henry, & Co., Ltd. . . . .            | Manchester                 |

**Gears (Rawhide, &c.).**

|                                           |                       |
|-------------------------------------------|-----------------------|
| Angus George, & Co., Ltd. . .             | Newcastle-on-Tyne     |
| British-Thomson Houston Co., Ltd. . . . . | Rugby                 |
| Campbell & Isherwood . . . .              | Bootle, nr. Liverpool |
| Reay Gearworks, Ltd. . . .                | Gateshead-on-Tyne     |
| Wallwork Henry, & Co. Ltd. . .            | Manchester            |

**Girders.**

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Arrol Sir William, & Co., Ltd. . . . .  | Dalmarnock Ironworks, Bridgeton, Glasgow |
| Booth John, & Sons . . . .              | Bolton                                   |
| Clyde Structural Iron Co., Ltd. . . . . | Clydeside Ironworks, Scotstoun, Glasgow  |
| Heenan & Froude, Ltd. . . .             | Newton Heath Ironworks, nr. Manchester   |
| Mechans Limited . . . .                 | Glasgow                                  |
| Piggott Thos., & Co., Ltd. . .          | Springhill, Birmingham                   |

**Glazing.**

|                                |                                |
|--------------------------------|--------------------------------|
| Crittall Manufacturing Co. . . | Braintree, Essex               |
| Grover & Co., Ltd . . . .      | Carpenter's Rd., Stratford, B. |
| Hope Henry, & Sons, Ltd. . .   | Smethwick, Birmingham          |

**Gold Crushing and Amalgamating Machinery.**

|                                   |                        |
|-----------------------------------|------------------------|
| Davey, Paxman & Co., Ltd. . . . . | Colchester             |
| Hadfields Limited . . . .         | Hecla Works, Sheffield |
| Marsden H. R., Ltd. . . .         | Soho Foundry, Leeds    |
| Sandycroft, Ltd. . . . .          | Chester                |

**Gold Dredgers.**

|                            |                          |
|----------------------------|--------------------------|
| Bucyrus Co. . . . .        | 13, Victoria St., S.W. 1 |
| Lobnitz & Co., Ltd. . . .  | Renfrew, Scotland        |
| Simons W., & Co., Ltd. . . | Renfrew, Scotland        |

**Governors (Engine).**

|                                                    |                                  |
|----------------------------------------------------|----------------------------------|
| Boving & Co., Ltd. . . .                           | 56, Kingsway, W.C. 2             |
| Bscher, Wyss & Co. . . .                           | 20, Grosvenor Gardens, S.W.1     |
| Hartnell Wilson, & Co., Ltd. .                     | Volt Works, Kirkstall Rd., Leeds |
| Hollingsdrake H., & Sons, Ltd. . . . .             | Stockport                        |
| Mason Regulator Co. . . .                          | Boston, Mass. U.S.A.             |
| Newton, Bean & Mitchell . .                        | Dudley Hill, Bradford            |
| Pollock, Macnab & Highgate .                       | Shettleston, Glasgow             |
| Tangyes Limited . . . .                            | Birmingham                       |
| Universal Valve & Chemical Accessories Co. . . . . | Dudley Hill, Bradford            |

**Grabs.**

|                                      |                           |
|--------------------------------------|---------------------------|
| Priestman Bros., Ltd. . . .          | Holderness Foundry, Hull  |
| Westwood Joseph, & Co., Ltd. . . . . | Napier Yard, Millwall, E. |
| Wilson John H., & Co. . . .          | Dock Rd., Birkenhead      |

**Graphite (Lubricating, &c.).**

|                                 |                                        |
|---------------------------------|----------------------------------------|
| Dixon, Joseph, Crucible Co. . . | 28, Victoria St., S.W. 1               |
| Everitt & Co., Ltd. . . .       | 40, Chapel St., Liverpool              |
| Graphite Products, Ltd. . . .   | 218-220, Queen's Rd., Battersea, S.W.8 |

**Grinding Mills.—(See also Disintegrators.)**

|                                            |                                          |
|--------------------------------------------|------------------------------------------|
| Allen Edgar, & Co., Ltd. . .               | Sheffield                                |
| Fletcher George, & Co., Ltd. .             | Litchurch, Derby                         |
| Hadfields Limited . . . .                  | Hecla Works, Sheffield                   |
| Hardy & Padmore, Ltd. . . .                | Worcester                                |
| Marsden H. R., Ltd. . . .                  | Soho Foundry, Leeds                      |
| Marshall, Sons & Co., Ltd. . .             | Gainsborough                             |
| Patent Lightning Crusher Co., Ltd. . . . . | 142, Rosebery Ave., Gray's Inn Rd., E.C. |
| Smith, F. L., & Co., Ltd. . .              | 20, Essex St., W.C. 2                    |
| Wood Hugh, & Co., Ltd. . .                 | 65, Fenchurch St., E.C.                  |

**Grinding and Polishing Machinery.**

|                                |                             |
|--------------------------------|-----------------------------|
| Beyer, Peacock & Co., Ltd. . . | Manchester                  |
| Buck & Hickman, Ltd. . . .     | 2 & 4, Whitechapel Rd., E.1 |
| Carborundum Co., Ltd. . . .    | Trafford Park, Manchester.  |

**Grinding and Polishing Machinery—Continued.**

|                                               |                                      |
|-----------------------------------------------|--------------------------------------|
| Consolidated Pneumatic Tool Co., Ltd. . . . . | Egyptian House, 170, Piccadilly, W.1 |
| Globe Pneumatic Engineering Co., Ltd. . . . . | 1, Victoria St., S.W. 1              |
| Jones A. A., & Shipman, Ltd. . . . .          | East Park Rd., Leicester             |
| Lash Robert H. . . . .                        | 29-31, Portugal St., W.C. 2          |
| Luke & Spencer, Ltd. . . . .                  | Canal Eng. Works, Al-trincham        |
| Morton & Weaver . . . . .                     | Cox St., Coventry                    |
| Muir Wm., & Co., Ltd. . . . .                 | Sherbourne St., Manchester           |
| Purden Charles, Ltd. . . . .                  | 262, Corporation St., Birmingham     |
| Selson Engineering Co., Ltd. . . . .          | 85, Queen Victoria St., E.C.         |
| Sterne L. & Co., Ltd. . . . .                 | Crown Ironwks, Glasgow               |
| Swinney Bros., Ltd. . . . .                   | Morpeth                              |
| Universal Machinery Corporation, Ltd. . . . . | 326, Old St. (Shoreditch), E.C.      |
| Ward H. W., & Co., Ltd. . . . .               | Selly Oak, Birmingham                |
| Wisconsin Electric Co. . . . .                | Racine, Wisconsin, U.S.A.            |

**Grinding and Polishing Wheels.—(See Emery Wheels.)**

|                                               |                     |
|-----------------------------------------------|---------------------|
| Universal Machinery Corporation, Ltd. . . . . | 326, Old St., E.C.2 |
|-----------------------------------------------|---------------------|

**Grindstones.**

|                                        |           |
|----------------------------------------|-----------|
| Tasker's Engineering Co., Ltd. . . . . | Sheffield |
|----------------------------------------|-----------|

**Gunpowder and Gun-Cotton Machinery.**

|                                |            |
|--------------------------------|------------|
| Taylor & Challen, Ltd. . . . . | Birmingham |
|--------------------------------|------------|

**Guns and Gun Forgings.**

|                                   |                          |
|-----------------------------------|--------------------------|
| Brown John, & Co., Ltd. . . . .   | Sheffield                |
| Firth Thos., & Sons, Ltd. . . . . | Norfolk Works, Sheffield |
| Vickers Limited . . . . .         | Sheffield                |

**Gyroscopes.****Hammers (Drop).**

|                                         |                      |
|-----------------------------------------|----------------------|
| Brett's Patent Lifter Co., Ltd. . . . . | Coventry             |
| Massey B. & S., Ltd. . . . .            | Openshaw, Manchester |
| Platt Samuel, Ltd. . . . .              | Wednesbury           |

**Hammers (Power).—(See also Steam Hammers.)**

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| Alldays & Onions, Ltd. . . . .                | Birmingham                            |
| Beaudry & Co., Inc. . . . .                   | Boston, Mass., U.S.A.                 |
| Bristol Pneumatic Tools, Ltd. . . . .         | 140, Victoria St., Bristol            |
| Cochrane John (Barrhead), Ltd. . . . .        | Barrhead, nr. Glasgow.                |
| Consolidated Pneumatic Tool Co., Ltd. . . . . | Egyptian House, 170, Piccadilly, W. 1 |
| Globe Pneumatic Engineering Co., Ltd. . . . . | 1, Victoria St., Westminster, S.W.    |
| Ingersoll-Rand Co. . . . .                    | 165, Qn. Victoria St., E.C.           |
| Massey B. & S., Ltd. . . . .                  | Openshaw, Manchester                  |
| Player W. & J. . . . .                        | Birmingham                            |
| United Hammer Co. . . . .                     | Boston, Mass., U.S.A.                 |
| Walber W. A., & Co. . . . .                   | 38, Victoria St., S.W.                |

**Hammers (Steam).—(See Steam Hammers.)****Handles (Tool).**

|                             |                         |
|-----------------------------|-------------------------|
| Dickie Geo. & Son . . . . . | Chester St., Birkenhead |
|-----------------------------|-------------------------|

**Haulage Plants.—(See also Engines—Winding.)**

|                                          |                                          |
|------------------------------------------|------------------------------------------|
| Barclay Andrew, Sons & Co., Ltd. . . . . | Caledonia Wks., Kilmar-nock, Scotland    |
| British Electric Plant Co., Ltd. . . . . | 66, Carrick St., Glasgow                 |
| Bullivant & Co., Ltd. . . . .            | 72, Mark Lane, E.C.                      |
| Carron Co. . . . .                       | Carron, Stirlingshire                    |
| Grant, Ritchie & Co., Ltd. . . . .       | Kilmarnock                               |
| Heenan & Froude, Ltd. . . . .            | Worcester                                |
| Higginbottom & Mannock, Ltd. . . . .     | Crown Ironworks, West Gorton, Manchester |
| Lidgerwood Ltd. . . . .                  | Friars House, New Broad St., E.C.        |

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Marshall, Sons, & Co., Ltd. . . . . | Gainsborough                    |
| Napier Bros., Ltd. . . . .          | 130, Hyde Park St., Glasgow, W. |

|                                      |                             |
|--------------------------------------|-----------------------------|
| Pratchitt Bros. . . . .              | Denton Ironworks, Carlisle  |
| Robey & Co., Ltd. . . . .            | Lincoln                     |
| Ruston & Hornsby, Ltd. . . . .       | Sheaf Ironworks, Lincoln    |
| Uskside Iron Works . . . . .         | Newport, Mon.               |
| Walker - Bros. (Wigan), Ltd. . . . . | Pagefield Iron Works, Wigan |
| Yates & Thom, Ltd. . . . .           | Canal Works, Blackburn      |

**Heating Apparatus.**

|                                                       |                                 |
|-------------------------------------------------------|---------------------------------|
| Brightside Foundry & Engineering Co., Ltd. . . . .    | Sheffield                       |
| Davidson & Co., Ltd. . . . .                          | Belfast                         |
| Horne Engineering Co. . . . .                         | St. Peters Lane, Glasgow        |
| Keith James, & Blackman Co., Ltd. . . . .             | 27, Farringdon Avenue, E.C.     |
| Musgrave & Co., Ltd. . . . .                          | Belfast                         |
| Royles, Ltd. . . . .                                  | Irlam, nr. Manchester           |
| Simon-Carves, Ltd. . . . .                            | Manchester                      |
| Standard & Oswald Stott (Engineers), Ltd. . . . .     | Leicester                       |
| Sturtevant Engineering Co., Ltd. . . . .              | 147, Queen Victoria St., E.C.   |
| Thermotank Co. . . . .                                | 55, West Regent St., Glasgow    |
| Tullis D. & J., Ltd. . . . .                          | Kilbowie Ironworks, nr. Glasgow |
| Westinghouse Brake and Saxby Signal Co., Ltd. . . . . | 82, York Rd., King's Cross, N.  |
| Wright's Forge and Eng. Co., Ltd. . . . .             | Tipton, Staffs                  |

**Hinges.****Hoisting Machinery.—(See also Cranes.)**

|                                               |                                       |
|-----------------------------------------------|---------------------------------------|
| American Steel Export Co. . . . .             | Woolworth Building, New York, U.S.A.  |
| Anderson-Grice Co., Ltd. . . . .              | Carnoustie, Scotland                  |
| Bailey Sir W.H., & Co., Ltd. . . . .          | Salford, Manchester                   |
| Bedford Engineering Co. . . . .               | Bedford, England                      |
| Berry Henry, & Co., Ltd. . . . .              | Croydon Works, Leeds                  |
| Brown Hoisting Machinery Co. . . . .          | Cleveland, Ohio, U.S.A.               |
| Butler Samuel & Co., Ltd. . . . .             | Stanningley, near Leeds               |
| Campbell & Isherwood, Ltd. . . . .            | Bootle, nr. Liverpool                 |
| Chaplin Alex., & Co. . . . .                  | Govan, Glasgow                        |
| Clarke, Chapman & Co., Ltd. . . . .           | Gateshead-on-Tyne                     |
| Coles H. J., Ltd. . . . .                     | Derby                                 |
| Consolidated Pneumatic Tool Co., Ltd. . . . . | Egyptian House, 170, Piccadilly, W. 1 |

**Misting Machinery—Continued.**

Craven Brothers (Manchester), Ltd. . . . . Vauxhall Wks., Reddish  
 Davey, Paxman & Co., Ltd. . . . . Stockport  
 Fellows Bros., Ltd. . . . . Colchester  
 Fidge, Ltd. . . . . Cradley Heath, Staffs.  
 Gibbins R. C. & Co. . . . . Haarlem, Holland  
 Head, Wrightson & Co., Ltd. . . . . Berkley St., Birmingham  
 Higginbottom & Mannock, Ltd. . . . . Teesdale Ironworks, Thorn-  
 . . . . . [aby-on-Tees  
 Holt & Willetts . . . . . West Gorton, Manchester  
 . . . . . Lion Works, Cradley  
 . . . . . Heath  
 Jack Alexander, & Co., Ltd. . . . . Motherwell  
 Lidgerwood Ltd. . . . . Friars House, New Broad  
 . . . . . St., E.C.  
 Middleton Bros. . . . . Pudsey, Leeds  
 Napier Bros., Ltd. . . . . 130, Hyde park St., Glas-  
 . . . . . gow, W.  
 Northern Crane Works, Ltd. . . . . Walkerville, Ontario,  
 . . . . . Canada  
 Priestman Brothers, Ltd. . . . . Holderness Fndry, Hull  
 Ransomes, Sims & Jefferies, Ltd. . . . . Ipswich  
 Rice & Co. (Leeds), Ltd. . . . . Elland Rd., Leeds  
 Robey & Co., Ltd. . . . . Lincoln  
 Royce, Ltd. . . . . Trafford Pk., Manchester  
 Ruston & Hornsby, Ltd. . . . . Sheaf Ironworks, Lincoln  
 Selson Engineering Co., Ltd. . . . . 85, Qn. Victoria St., R.C.  
 Shepard Electric Crane & Hoist Co. . . . . U.S.A.  
 Tangyes Limited . . . . . Birmingham  
 Vaughan Crane Co., Ltd. . . . . Openshaw, Manchester  
 Waygood-Otis, Ltd. . . . . Fallowfield Rd., S.B.  
 Whitakers (Engineers), Ltd. . . . . Horsforth, Leeds  
 Willets Charles, Junr. . . . . Cradley Heath, Staffs  
 Witton-Kraemer Electric Tools and Hoist Works . . . . . Witton, Birmingham  
 Wrenham, Bates & Goode, Inc. . . . . 3, London Wall Build-  
 . . . . . ings, E.C.  
 Yale & Towne Mfg. Co. . . . . 15, Mallow St., Old  
 . . . . . St., E.C. 1.  
 Youngs . . . . . Birmingham

**Hose Pipes.**

Bell's United Asbestos Co., Ltd. . . . . 593, Southwark St., S.B.  
 Guest & Chrimmes . . . . . Rotherham  
 Gutta Percha & Rubber, Ltd. . . . . Toronto, Canada  
 India Rubber, Gutta Percha & Telegraph Works Co., Ltd. . . . . Silvertown, B.  
 Merryweather & Sons, Ltd. . . . . 63, Long Acre, W.C.  
 Reddaway F. & Co., Ltd. . . . . Pendleton, Manchester  
 Tullis John, & Son . . . . . St. Ann's Leather Wks.,  
 . . . . . Glasgow  
 United States Rubber Co., Ltd. . . . . 47 & 48, Farringdon St.,  
 . . . . . E.C. 4  
 Willcox W. H., & Co., Ltd. . . . . 32-38, Southwark St.,  
 . . . . . S.E.  
 Woodliffe Company . . . . . Mitcham Common, Sur-  
 . . . . . rey  
 Worthington - Simpson, Ltd. . . . . Queen's House, Kings-  
 . . . . . way, W.C. 2

**Hydrants.**

Alley & Macellan, Ltd. . . . . Sentinel Works, Glasgow  
 Blakeborough J., & Sons, Ltd. . . . . Woodhouse Wks., Brig-  
 . . . . . house, Yorks  
 Glenfield & Kennedy, Ltd. . . . . Kilmarnock, N.B.  
 Guest & Chrimmes . . . . . Rotherham

**Hydraulic Machinery.**

Arrol Sir William, & Co., Ltd. . . . . Dalmarnock Ironworks,  
 . . . . . Bridgeton, Glasgow  
 Bailey Sir W. H., & Co., Ltd. . . . . Salford, Manchester  
 Berry Henry, & Co., Ltd. . . . . Croxdon Works, Leeds  
 Carruthers J. H., & Co., Ltd. . . . . Polmadie Ironwks., Glas-  
 . . . . . Carlisle [gow  
 Cowans, Sheldon & Co., Ltd. . . . . Vauxhall Wks., Reddish,  
 Craven Brothers (Manchester), Ltd. . . . . Stockport  
 Davy Brothers, Ltd. . . . . Sheffield  
 Drysdale & Co., Ltd. . . . . Bon Accord Wks., Yoker,  
 . . . . . [Glasgow, W.  
 East Ferry Road Engineer-  
 ing Works Co., Ltd. . . . . Millwall, B.  
 Fullerton, Hodgart and Barclay, Ltd. . . . . Vulcan Foundry and  
 . . . . . Engine Works, Paisley  
 Glenfield & Kennedy, Ltd. . . . . Kilmarnock, N.B.  
 Hathorn, Davey & Co., Ltd. . . . . Leeds  
 Hayward-Tyler & Co., Ltd. . . . . 99, Queen Victoria St., B.C.  
 Hollings & Guest, Ltd. . . . . Thimble Mill Lane, Bir-  
 . . . . . mingham  
 Hydraulic Gears, Ltd. . . . . Hammersmith, W.6  
 Leeds Engineering and Hydraulic Co., Ltd. . . . . Rodley, nr. Leeds.  
 Marshall, Fleming & Co. . . . . Motherwell, N.B.  
 Middleton Bros. . . . . Pudsey, Leeds  
 Middleton Robert, & Co., Ltd. . . . . Sheepscar Foundry, Leeds  
 Musgrave Bros. . . . . Crown Point Foundry,  
 . . . . . Leeds  
 Pulsometer Engineering Co., Ltd. . . . . Nine Elms Ironworks,  
 . . . . . Reading  
 Rees Roturbo Manufactur-  
 ing Co., Ltd. . . . . Wolverhampton  
 Rice & Co. (Leeds), Ltd. . . . . Elland Rd., Leeds  
 Rose, Downs & Thompson, Ltd. . . . . Old Foundry, Hull  
 Selson Engineering Co., Ltd. . . . . 85, Queen Victoria St.,  
 . . . . . B.C.  
 Smith Hugh, & Co., Ltd. . . . . Possil Engine Works,  
 . . . . . Glasgow  
 Stewart Duncan, & Co., Ltd. . . . . London Rd. Ironworks,  
 . . . . . Glasgow  
 Tangyes Limited . . . . . Birmingham

**Hydraulic Presses.—(See also Forging Presses.)**

Arrol Sir William, & Co., Ltd. . . . . Dalmarnock Ironworks,  
 . . . . . Bridgeton, Glasgow  
 Bailey Sir W. H., & Co., Ltd. . . . . Salford, Manchester  
 Berry Henry, & Co., Ltd. . . . . Croxdon Works, Leeds  
 Bessemer Hy., & Co., Ltd. . . . . Sheffield  
 Davy Brothers, Ltd. . . . . Sheffield  
 East Ferry Road Engineer-  
 ing Works Co., Ltd. . . . . Millwall, B.  
 Fawcett, Preston & Co., Ltd. . . . . Liverpool  
 Fielding & Platt, Ltd. . . . . Gloucester  
 Hadfield's Limited . . . . . Hecla Works, Sheffield  
 Hayward-Tyler & Co., Ltd. . . . . 99, Queen Victoria St., B.C.  
 Hollings & Guest, Ltd. . . . . Thimble Mill Lane, Bir-  
 . . . . . mingham  
 Holt & Willetts . . . . . Lion Wks., Cradley Heath  
 Leeds Engineering & Hy-  
 draulic Co., Ltd. . . . . Rodley, nr. Leeds.  
 Manlove, Allott & Co., Ltd. . . . . Nottingham  
 Middleton Robert, & Co., Ltd. . . . . Sheepscar Foundry, Leeds  
 Musgrave Bros. . . . . Crown Point Fndry, Leeds  
 Pigott Thos., & Co., Ltd. . . . . Springfield, Birmingham  
 Pleck Foundry Co., Ltd. . . . . Walsall  
 Rice & Co. (Leeds), Ltd. . . . . Elland Rd., Leeds  
 Rose, Downs & Thompson, Ltd. . . . . Old Foundry, Hull

**Hydraulic Presses.—(See also Forging Presses.)—Continued.**

|                             |                                      |
|-----------------------------|--------------------------------------|
| Smith Hugh, & Co., Ltd.     | Possil Engine Works, Glasgow         |
| Stewart Duncan, & Co., Ltd. | London Rd. Ironworks, Bath [Glasgow] |
| Stothert & Pitt, Ltd.       | .. Bath [Glasgow]                    |
| Tangyes Limited             | .. Cornwall Wks., Birm'ham           |
| Taylor & Challen, Ltd.      | .. Birmingham                        |
| Waygood-Otis, Ltd.          | .. Falmouth Rd., S.B.                |

**Hydraulic Rams.**

|                                   |                             |
|-----------------------------------|-----------------------------|
| Bailey Sir W. H., & Co., Ltd.     | Salford, Manchester         |
| Keith James, & Blackman Co., Ltd. | .. 27, Farringdon Av., E.C. |

**Hydro-Extractors.—(See Centrifugal Drying Machines.)****Hydrokineters and Temperature Equalisers.**

|                    |                                    |
|--------------------|------------------------------------|
| Brundrit Joseph    | .. 14, Water St., Liverpool        |
| Weir G. & J., Ltd. | .. Holm Foundry, Cathcart, Glasgow |

**Ice-Making Machines.—(See also Refrigerating Machinery.)**

|                                  |                                    |
|----------------------------------|------------------------------------|
| Allen W. H., Sons, & Co., Ltd.   | Queen's Engineering Works, Bedford |
| Becher, Wyss & Co.               | .. 20, Grosvenor Gardens, S.W. 1.  |
| Hall J. & B., Ltd.               | .. Dartford Ironworks, Kent        |
| Mirrlees Watson Co., Ltd.        | .. Scotland St., Glasgow           |
| Pontifex & Wood, Ltd.            | .. Union Foundry, Derby            |
| Pulsometer Engineering Co., Ltd. | .. Nine Elms Ironworks, Reading    |
| Seagers, Ltd.                    | .. Dartford [Glasgow]              |
| Sterne L., & Co., Ltd.           | .. Crown Ironworks, Glasgow        |
| West H. J. & Co., Ltd.           | .. 72-74, Grays Inn, W.C. 1        |

**Igniters (Electric).**

|                    |          |
|--------------------|----------|
| Lodge Bros., & Co. | .. Rugby |
|--------------------|----------|

**Incandescent Lamps.**

|                                   |          |
|-----------------------------------|----------|
| British Thomson-Houston Co., Ltd. | .. Rugby |
|-----------------------------------|----------|

**India-rubber Goods.—(See also Ebonite, and Woodite for Steam, &c., Packings.)**

|                                                        |                                   |
|--------------------------------------------------------|-----------------------------------|
| Bell's United Asbestos Co., Ltd.                       | 598, Southwark St., S.B.          |
| Gutta Percha & Rubber, Ltd.                            | Toronto, Canada                   |
| India-Rubber, Gutta Percha & Telegraph Works Co., Ltd. | Silvertown, B.                    |
| Reddaway F., & Co., Ltd.                               | Pendleton, Manchester             |
| United States Rubber Co., Ltd.                         | 47 and 48, Farringdon St., E.C. 4 |
| Woodite Company                                        | Mitcham Common, Surrey            |

**Indicators and Indicator Gear (Steam and Gas Engine)**

|                                      |                            |
|--------------------------------------|----------------------------|
| Bailey Sir W. H., & Co., Ltd.        | Salford, Manchester        |
| Crosby Valve & Engineering Co., Ltd. | 41 & 42, Foley St., W. 1   |
| Dobbie, McInnes & Clyde, Ltd.        | 57, Bothwell St., Glasgow  |
| Hannan & Buchanan                    | 75, Robertson St., Glasgow |
| Negretti & Zambra                    | 38, Holborn Viaduct, E.C.  |

**Injectors.**

|                                |                                      |
|--------------------------------|--------------------------------------|
| Bailey Sir W. H., & Co., Ltd.  | Salford, Manchester                  |
| Davies & Metcalfe, Ltd.        | Romiley, Manchester                  |
| Dempster, Moore & Co., Ltd.    | 49, Robertson St., Glasgow           |
| Green & Boulding, Ltd.         | 28, New Bridge St., E.C. Manchester  |
| Gresham & Craven, Ltd.         | 35, Great Dover St., S.E. Nottingham |
| Lunken Company, Ltd.           | ..                                   |
| Manlove, Alliott & Co., Ltd.   | ..                                   |
| Manning, Maxwell & Moore, Inc. | New York                             |
| Willcox W. H., & Co., Ltd.     | 32 to 38, Southwark St., S.E.        |
| White's Injectors, Ltd.        | Pendleton, Manchester                |

**Inks.**

|                        |                           |
|------------------------|---------------------------|
| Halden J., & Co., Ltd. | 8, Albert Sq., Manchester |
|------------------------|---------------------------|

**Instruments (Electrical, Surveying, Testing, &c.).**

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Alexander, George H.                        | Coleshill St., Birmingham                 |
| Bassett-Lowke, Ltd.                         | Northampton.                              |
| British Thomson-Houston Co., Ltd.           | Rugby                                     |
| Budenberg Gauge Co., Ltd.                   | Broadheath, nr. Manchester                |
| Cooke, T., & Sons, Ltd.                     | Buckingham Works, York                    |
| Ellison, George                             | Birmingham                                |
| Halden J., & Co., Ltd.                      | 8, Albert Sq., Manchester                 |
| Handley Page Ltd.                           | Croydon, Surrey                           |
| Heath & Co., Ltd.                           | New Eltham, S.E. 9                        |
| Hilger Adam, Ltd.                           | 75A, Camden Rd., N.W. 1                   |
| Lea Recorder Co., Ltd.                      | 28, Deansgate, Manchester                 |
| Michell Bearings, Ltd.                      | 3, Central Buildings, Westminster, S.W. 1 |
| Negretti & Zambra                           | 28, Holborn Viaduct, E.C.                 |
| Shore Instrument & Mfg. Co.                 | New York                                  |
| Société Genevoise d'Instruments de Physique | 95, Queen Victoria St., E.C. 4            |

**Insulating Materials.**

|                               |                                |
|-------------------------------|--------------------------------|
| Barrett & Elers, Ltd.         | Wallis Rd., Hackney Wick, E. 9 |
| Newall's Insulation Co., Ltd. | Newcastle-on-Tyne              |
| Wiggins F., & Sons            | 102 and 103, Minories, E.      |
| Woodite Company               | Mitcham Common, Surrey         |

**Insurance Companies.—(See also Boiler Inspection & Insurance Societies.)**

|                                              |                           |
|----------------------------------------------|---------------------------|
| London & Lancashire Fire Insurance Co., Ltd. | 155, Leadenhall St., E.C. |
|----------------------------------------------|---------------------------|

**Iron Founders.—(See Castings, Iron.)****Iron Merchants.**

|                         |                            |
|-------------------------|----------------------------|
| Birch John, & Co., Ltd. | 2, London Wall Bldgs.,     |
| Henderson & Glass       | Liverpool [E.C.]           |
| Hughes, W. R.           | 94, Market St., Manchester |

**Iron (Fig).**

|                                |                                     |
|--------------------------------|-------------------------------------|
| Butterley Co., Ltd.            | Derby                               |
| Clay Cross Co., Ltd.           | Clay Cross, Derbyshire              |
| Glasgow Iron & Steel Co., Ltd. | Wishaw Iron and Steel Works, Wishaw |

**Iron and Steel Bars.—(See Bars—Iron and Steel.)**

**Iron and Steel Buildings.**—(See *Structural Engineering*.)**Iron and Steel Works (Plant for).**—(See also *Crucibles, Cupolas, Forging Machines, Hammers—Power, Presses—Power*.)

|                                           |                                |
|-------------------------------------------|--------------------------------|
| Ashmore, Benson, Pease & Co., Ltd.        | Stockton-on-Tees               |
| Berry Henry, & Co., Ltd.                  | Croydon Works, Hunslet, Leeds  |
| Craig & Donald, Ltd.                      | Johnstone, nr. Glasgow         |
| Dalglish A. & W.                          | Pollokshaws, Glasgow           |
| Davy Brothers, Ltd.                       | Sheffield                      |
| Dowson & Mason Gas Plant Co., Ltd.        | Levenshulme, Manchester        |
| Fraser & Chalmers Engineering Works       | Erith, Kent                    |
| Galloways, Ltd.                           | Manchester                     |
| General Electric Co., Ltd.                | Magnet House, Kingsway, W.C. 2 |
| Harvey Engineering Co., Ltd.              | Glasgow                        |
| Head, Wrightson & Co., Ltd.               | Thoraby-on-Tees                |
| Heenan & Froude, Ltd.                     | Manchester                     |
| Hollings & Guest, Ltd.                    | Thimble Mill Lane, Birmingham  |
| Hordern & Mason                           | St. Mary's, Birmingham         |
| Lilleshall Co., Ltd.                      | Oakengates, Shropshire         |
| Marsden H. R., Ltd.                       | Soho Foundry, Leeds            |
| Metropolitan-Vickers Electrical Co., Ltd. | Trafford Park, Manchester      |
| Musgrave Bros.                            | Crown Point, Leeds             |
| Rice & Co. (Leeds), Ltd.                  | Elland Rd., Leeds              |
| Tickle John, & Co., Ltd.                  | West Bromwich                  |
| Wellman Smith Owen Engineering Corp.      | King's House, Kingsway, W.C. 2 |
| Yates & Thorn, Ltd.                       | Canal Works, Blackburn         |

**Jacks (Lifting).**

|                               |                                |
|-------------------------------|--------------------------------|
| Dempster, Moore & Co.         | 49, Robertson St., Glasgow     |
| Gibbins R. C., & Co.          | Berkley St., Birmingham        |
| Holt & Willetts               | Lion Wks., Cradley Heath       |
| Morris Herbert, Ltd.          | Loughborough, England          |
| Tangyes Limited               | Birmingham                     |
| Willetts Charles, Junr., Ltd. | Cradley Heath, Staffs.         |
| Wonham Bates & Goode, Inc.    | 3, London Wall Buildings, E.C. |
| Youngs                        | Ryland St. Wks., B'ham         |

**Joining Materials.**—(See also *Asbestos Goods, &c., India-rubber Goods, and Packing—Engines & Hydraulic*.)

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Beldam Packing & Rubber Co., Ltd. | 29, Gracechurch St., B.C. 3             |
| Bell's United Asbestos Co., Ltd.  | 593, Southwark St., S.B.                |
| Cape Asbestos Co., Ltd.           | 23, King St., E.C. 2                    |
| Graphite Products, Ltd.           | 218-220, Queen's Rd., Bat-tersea, S.W.8 |
| Hobdell, Way & Co., Ltd.          | St. John's House, 124-5, Minorities, E. |
| House F., & Co.                   | 68, Falkner St., Liver-pool             |
| Legge F., Thompson, & Co.         | 16, South Castle St., Liverpool         |
| Metallic Manufacturing Co., Ltd.  | Ardrossan                               |
| Notcutt Walter P., Ltd.           | 8, White St., B.C.                      |
| Powerite Steam Joining Co., Ltd.  | 16 and 17, Devonshire Square, E.C. 2    |
| Thomas & Bishop                   | 37, Tabernacle St., E.C.                |
| Turner Bros. Asbestos Co., Ltd.   | Rochdale                                |

**Joints, Rolled (Iron and Steel)**

|                                   |                       |
|-----------------------------------|-----------------------|
| Dunkerley C. C., & Co., Ltd.      | Store St., Manchester |
| Lanarkshire Steel Co., Ltd.       | Motherwell            |
| Partington Steel & Iron Co., Ltd. | Irlam, Manchester     |

**Kilns.**

|                              |                        |
|------------------------------|------------------------|
| Fletcher George, & Co., Ltd. | Litchurch, Derby       |
| Smidth, F. L., & Co., Ltd.   | 20, Essex St., W.C. 2. |

**Laboratories and Testing Plants.****Ladders and Steps.****Ladies.**

|                                      |                                       |
|--------------------------------------|---------------------------------------|
| Clayton Son, & Co., Ltd.             | Hunslet, Leeds                        |
| Constructional Engineering Co., Ltd. | Charles Henry St., Bir-mingham        |
| McNeil C., Ltd.                      | Kinning Park Hydraulic Forge, Glasgow |

**Lamps.**—(See also *Electric Lighting & Power Plant, and Incandescent Lamps*.)

|                                   |                                         |
|-----------------------------------|-----------------------------------------|
| Allen-Liversidge, Ltd.            | 106, Victoria St., S.W.                 |
| British Thomson-Houston Co., Ltd. | Rugby                                   |
| Crowther & Osborn, Ltd.           | 7, Blackfriars St., Salford, Manchester |
| General Electric Co., Ltd.        | Magnet House, Kingsway, W.C. 2          |
| Guest & Chrimes                   | Rotherham                               |
| Howes & Burley, Ltd.              | Birmingham                              |
| Pope's Electric Lamp Co., Ltd.    | Hythe Rd., Willesden, N.W. 10           |
| Wells A. C., & Co.                | 102, Midland Rd., N.W.                  |

**Lathes.**—(See *Machine Tools*.)**Launches & Yachts.**—(See also *Motor Boats*.)

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| Alley & Maclellan, Ltd.                    | Sentinel Works, Glasgow                     |
| Chaplin Alex., & Co.                       | Glasgow                                     |
| Cochran & Co. (Annan), Ltd.                | Annan, N.B.                                 |
| Day, Summers & Co., Ltd.                   | Southampton                                 |
| Escher, Wyss & Co.                         | 20, Grosvenor Gardens, S.W. 1               |
| Fleming & Ferguson, Ltd.                   | Paisley, N.B.                               |
| Forth Shipbuilding & Engineering Co., Ltd. | Govan, Glasgow                              |
| McKie & Baxter                             | Govan, Glasgow                              |
| Normand Augustin                           | 67, Rue du Perrey, Le Havre, France         |
| Ross & Duncan                              | Whitefield Wks., Glasgow                    |
| Simons W., & Co., Ltd.                     | Renfrew, N.B.                               |
| Smit L., & Zoons                           | Kinderdijk, Holland                         |
| Summers & Payne, Ltd.                      | Southampton                                 |
| Thornycroft J. L., & Co., Ltd.             | Southampton and 10, Grosvenor Place, S.W. 1 |
| Vosper & Co., Ltd.                         | Portsmouth                                  |
| Yarrow & Co., Ltd.                         | Glasgow                                     |

**Laundry Machinery.**—(See also *Centrifugal Drying Machines, and Drying Apparatus*.)

|                              |                         |
|------------------------------|-------------------------|
| Manlove, Alliott & Co., Ltd. | Nottingham [Glasgow     |
| Tullis D. & J., Ltd.         | Kilbowie Ironworks, nr. |



**Leathers (Hydraulic, &c.).**

Cooke, B. J. . . . Blackfriars, Manchester  
 Leathers Company (Altrincham), Ltd. . . . Altrincham, near Manchester

**Lifts.**

Bailey Sir W. H., & Co., Ltd. . . Salford, Manchester  
 Berry Henry, & Co., Ltd. . . . Croydon Works, Leeds  
 Gibbins R. C., & Co. . . . Berkley St., Birmingham  
 Holt & Willetts . . . . . Lion Wks., Cradley Heath  
 Rice & Co. (Leeds), Ltd. . . . Elland Rd., Leeds  
 Steven, A. P. . . . 181, St. James' Rd., Glasgow  
 Tangyes Limited . . . . . Birmingham  
 Waygood-Otis, Ltd. . . . Falmouth Rd., S.B.  
 Willetts Charles, Junr., } Colonial Works, Cradley Heath, Staffs.

**Light Railways.—(See Railways—Light and Portable.)****Lighers.—(See Barges.)****Lighting Apparatus.—(See also Electric Lighting Plant.)**

Allen-Liversidge, Ltd. . . 106, Victoria St., S.W.  
 Carron Company . . . . Carron, Stirlingshire  
 India-Rubber, Gutta Percha & Telegraph Works, Co., Ltd. . . Silvertown, B.  
 Keith James, & Blackman } 27, Farringdon Avenue, B.C.  
 Co., Ltd. . . . }  
 Wells A. C., & Co. . . . 102, Midland Rd., N.W.

**Lightning Conductors.**

Bailey Sir W. H., & Co., Ltd. . Salford, Manchester

**Liquid Fuel.**

Anglo-Mexican Petroleum Products Company, Ltd. . Finsbury Circus, E.C.2  
 Kermodes Ltd. . . . 35, The Temple, Dale St., Liverpool  
 Whites Patent Oil Burning Co., Ltd. . . . Newcastle-on-Tyne.

**Lock Nuts and Nut-Locking Appliances.**

Bayliss, Jones & Bayliss, Ltd. . Wolverhampton  
 Griplock Washer, Ltd. . . 6A, Tudor St., E.C. 4  
 Grover & Co., Ltd. . . . Carpenter's Rd., Stratford, B.  
 Positive Lock Washer Co. . 118-122, James Watt St., Glasgow  
 Sleeper & Hartley (Inc.) . . Worcester, Mass., U.S.A.

**Locomotive Engines.—(See Engines, Locomotive.)****Locomotives (Mountings for).**

Bailey Sir W. H., & Co., Ltd. . Salford, Manchester  
 Barclay Andrew, Sons & Co., Ltd. . Caledonia Works, Kilmarnock  
 Hopkinson J., & Co., Ltd. . . Huddersfield  
 Lunken Co., Ltd. . . . 35, Great Dover St., S.B.

**Looms.****Lubricants (Cutting).**

British Oil Products Co., } Townmill Rd., Dennis-  
 Ltd. . . . } town, Glasgow  
 Sterns, Ltd. . . . 16, Finsbury Sq., E.C.

**Lubricants and Oils.**

Acheson E. G., Ltd. . . 40, Wood St., S.W. 1  
 Bell's United Asbestos Co., Ltd. . . 59½, Southwark St., S.E.  
 Graphite Products, Ltd. . . 218-220, Queen's Rd., S.W. 8  
 Ironsides Co. . . . 61A, Bold St., Liverpool  
 Mountford Fredk., Ltd. . . Old Cross St., Birmingham  
 Sozol, Ltd. . . . 20, Copthall Ave., E.C. 2  
 Sterns, Ltd. . . . 56, Finsbury Sq., E.C.  
 Thomas & Bishop . . . 37, Tabernacle St., B.C.  
 Tranter W. J., Ltd. . . . Tipton, Staffs.  
 Trier Bros., Ltd. . . . 36, Victoria St., S.W. 1  
 Wells Henry, Oil Co. . . 11, Haymarket, S.W. 1  
 Willcox W. H. & Co., Ltd. 32-38, Southwark St., S.B.

**Lubricators.**

Bailey Sir W. H., & Co., Ltd. . Salford, Manchester  
 Bell's United Asbestos Co., Ltd. . . 59½, Southwark St., S.B.  
 British Steam Specialities, Ltd. . . Bedford St., Leicester  
 Butterworth Bros., Ltd. . . Manchester  
 Crosby Valve & Engineering Co., Ltd. . . 41 & 42, Foley St., W. 1  
 Hunt & Mitton, Ltd. . . Oozells St., North, Birmingham  
 Lees T. & R. . . . Hollinwood, near Manchester  
 Lunken Co., Ltd. . . . 35, Great Dover St., S.B.

McCord Manufacturing Co., Inc. . . Detroit, Michigan, U.S.A.  
 Piggott Thos., & Co. . . Springhill, Birmingham  
 Smith Bros. & Co. (Hyson), Ltd. . . Nottingham  
 Steam Cylinder Lubricator Co., Ltd. . . Gordon Works, Lower Broughton, Manchester  
 Sterns, Ltd. . . . 56, Finsbury Sq., E.C.  
 Tangyes Limited . . . Birmingham  
 Trier Brothers, Ltd. . . 36, Victoria St., S.W. 1  
 United Brassfounders & Engineers, Ltd. . . Cornbrook, Manchester  
 Wakefield C. C., & Co. . . Wakefield House, Cheap-side, E.C.  
 Willcox W. H., & Co., Ltd. 32 to 38, Southwark St., S.B.

**Machine Tools.—(See also Chucks, Second-hand Tools, &c., and Tools—Hand and Small.)**

Archdale Jas., & Co., Ltd. . . Ledsam St., Birmingham  
 Armstrong Sir W. G., } 8, Great George St.,  
 Whitworth & Co., Ltd. } S.W. 1  
 Asquith William (1919), Ltd. . . Park Works, Halifax  
 Associated British Machine Tool Makers, Ltd. . . 17, Grosvenor Gardens, S.W. 1  
 Atkins Harry F., Ltd. . . Peterborough  
 Barker, Spink, Lease & Co. . Shipley, Yorks  
 Becker Milling Machine Co. . Boston, Mass., U.S.A.  
 Bennie James, & Sons . . Govan, Glasgow  
 Berry F., & Sons . . . Sowerby Bridge  
 Berry Henry, & Co., Ltd. . Croydon Works, Leeds  
 Bertrams Limited . . . Sciennes, Edinburgh  
 Betts Machine Co. . . Rochester, New York, U.S.A.  
 Beyer, Peacock & Co., Ltd. . Gorton Foundry, Manchester  
 Bromell Patents Co., Ltd. . Glasgow

**Machine Tools—Continued.**

|                                            |                                            |
|--------------------------------------------|--------------------------------------------|
| Buck & Hickman, Ltd.                       | 2 and 4, Whitechapel Rd., E. 1             |
| Buckton Joshua, & Co., Ltd.                | Leeds                                      |
| Bullard Machine Tool Co.                   | Bridgeport, Conn. U.S.A.                   |
| Burton, Griffiths & Co., Ltd.              | 64, Vauxhall Bridge Rd., S.W. 1            |
| Butler Machine Tool Co., Ltd.              | Victoria Ironworks, Halifax, Eng.          |
| Cameron John, Ltd.                         | Oldfield Road Ironworks, Salford           |
| Campbell & Isherwood, Ltd.                 | Bootle, nr. Liverpool.                     |
| Campbells & Hunter, Ltd.                   | Dolphin Foundry, Leeds                     |
| Chambers, Scott & Co., Ltd.                | Motherwell                                 |
| Church Street Machinery Engineering Corpn. | 39, Church St., New York, U.S.A.           |
| Churchill Chas., & Co., Ltd.               | 9 to 15, Leonard St., E.C.                 |
| Clifton & Baird, Ltd.                      | Johnstone, Scotland                        |
| Clifton & Waddell                          | Johnstone, nr. Glasgow                     |
| Coats Machine Tool Co., Ltd.               | 14, Palmer St., S.W. 1                     |
| Colley Engineering & Machinery Co.         | 17, Surrey St., Strand, W.C. 2             |
| Consolidated Pneumatic Tool Co., Ltd.      | Egyptian House, 170, Piccadilly, W. 1      |
| Craig & Donald, Ltd.                       | Johnstone, nr. Glasgow                     |
| Craven Bros. (Manchester), Ltd.            | Vauxhall Wks., Reddish, Stockport          |
| Crockatt W., & Sons, Ltd.                  | 64, Darnley St., Glasgow                   |
| Davie Bros., Ltd.                          | Glasgow                                    |
| Davis & Primrose, Ltd.                     | Bangor Rd., Leith, N.B.                    |
| Dempster, Moore & Co., Ltd.                | 49, Robertson St., Glasgow                 |
| Drummond Bros., Ltd.                       | Engel Wks., nr. Guildford                  |
| Farmer & Co.                               | 150, St. John St., Clerkenwell, E.C. 1     |
| Forbes Brothers                            | Doe St., Birmingham                        |
| Haighs (Oldham), Ltd.                      | Globe Ironworks, Oldham                    |
| Harvey G. & A., Ltd.                       | Govan, Glasgow, W.                         |
| Heap Joshua, & Co., Ltd.                   | Ashton-under-Lyne                          |
| Herbert Alfred, Ltd.                       | Coventry                                   |
| Herbert Edward G., Ltd.                    | Levenshulme Manchester                     |
| Jardine John                               | Deering St., Nottingham                    |
| Jones A.A., & Shipman, Ltd.                | East Park Rd., Leicester                   |
| Jones & Lamson Machine Co.                 | 9 & 10, Water Lane, Qn. Victoria St., E.C. |
| Kearns H. W., & Co., Ltd.                  | Broadheath, nr. Manchester                 |
| Kynoch, Ltd.                               | Witton, Birmingham                         |
| Lang J., & Sons                            | Johnstone, N.B.                            |
| Lash Robert H., Ltd.                       | 23, Tavistock Sq., W.C. 1                  |
| Lloyd Richard, & Co.                       | Galton Works, Steelhouse Lane, Birmingham  |
| Loudon Brothers, Ltd.                      | 39, West Campbell St., Glasgow             |
| Machinery & Steels, Ltd.                   | 64 Great Eastern St., E.C. 2               |
| Macnab John (Machinery), Ltd.              | Mary St., Hyde                             |
| Maiden & Co., Ltd.                         | Hyde, Cheshire                             |
| Maycock Alex., W.                          | Chapel St., Stalybridge                    |
| Matterson Limited                          | Shawclough, Rochdale                       |
| Mikron, Ltd.                               | Bienne, Switzerland                        |
| Moorlands Engineering Co., Ltd.            | Leek, Staffs.                              |
| Muir Wm., & Co., Ltd.                      | Sherbourne St., Manchester                 |
| Musgrave Bros                              | Crown Point Foundry, Leeds                 |
| Nathan H. L.                               | 16, Regent Place, Birmingham               |
| Newbold, Walter, & Co., Ltd.               | 22, Martin Lane, Canon St., E.C. 4         |

**Machine Tools—Continued.**

|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| Niles-Bement-Pond Co.                           | 111, Broadway, New York, U.S.A.              |
| Niles-Bement-Pond Co.                           | 23 & 25, Victoria St., S.W.                  |
| Noble & Lund, Ltd.                              | Felling, nr. Newcastle-on-Tyne               |
| Parkinson J., & Son                             | Shipley, Yorkshire                           |
| Pearn Frank, & Co., Ltd.                        | Manchester                                   |
| Pollock & Macnab, Ltd.                          | Bredbury, nr. Stockport                      |
| Purden Charles, Ltd.                            | Lancaster St., Birmingham                    |
| Rahn-Larmon Co.                                 | Cincinnati, Ohio, U.S.A.                     |
| Redman C., & Sons                               | Kingston, Halifax                            |
| Rhodes Mfg. Co.                                 | Hartford, Conn., U.S.A.                      |
| Rice & Co. (Leeds), Ltd.                        | Elland Rd., Leeds                            |
| Richards Geo., & Co., Ltd.                      | Broadheath, nr. Manchester                   |
| Ryerson Joseph T., & Son                        | Chicago, Ill., U.S.A.                        |
| Scott Bros. (Keighley)                          | Albion Works, Keighley                       |
| Selson Engineering Co., Ltd.                    | 85, Queen Victoria St., E.C.                 |
| Shanks Thomas, & Co.                            | Johnstone                                    |
| Smith, Barker & Willson, Ltd.                   | Halifax                                      |
| Smith & Coventry, Ltd.                          | Manchester [Glasgow                          |
| Smith Hugh, & Co., Ltd.                         | Possill Engine Works, 53, Victoria St., S.W. |
| Steinle Turret Machine Co.                      | Range Bank, Halifax                          |
| Swift George, & Sons, Ltd.                      | Oerlikon, Switzerland                        |
| Swiss Machine Tool Works                        | Birmingham                                   |
| Tangyes Limited                                 | Bartholomew Square, Birmingham               |
| Taylor Charles (Birmingham), Ltd.               | Birmingham                                   |
| Timbrell & Wright Machine Tool & Eng. Co., Ltd. | Birmingham                                   |
| Tullis D. & J., Ltd.                            | Kilbowie Ironworks, nr. Glasgow              |
| Universal Machinery Corporation, Ltd.           | 326, Old St., E.C. 2                         |
| Vickers, Ltd.                                   | Erith                                        |
| Vibration Speciality Co.                        | Harrison Buildings, Philadelphia, U.S.A.     |
| Walber W. A., & Co.                             | 38, Victoria St., S.W.                       |
| Ward H. W., & Co., Ltd.                         | Selly Oak, Birmingham                        |
| Ward Thos. W., Ltd.                             | Albion Works, Sheffield                      |
| Webster & Bennett, Ltd.                         | Foleshill, Coventry                          |
| Wharton H., Ltd.                                | Station Rd., Reddish, Stockport              |
| Winn Charles, & Co.                             | Granville Place, Birmingham                  |
| Wisconsin Electric Co.                          | Racine, Wisconsin, U.S.A.                    |
| Wolesey Motors, Ltd.                            | York St., Westminster, S.W.                  |

**Machining for the Trade.**

|                        |                               |
|------------------------|-------------------------------|
| Dangerfield W. & J.    | Goldthorn Hill, Wolverhampton |
| Heath & Co., Ltd.      | New Eltham, S.E. 9            |
| Rosser & Russell, Ltd. | Queen's Wharf, Ham-mersmith   |
| Wills, W. & F., Ltd.   | Bridgwater                    |

**Magnets.—(See Separators, Magnets, &c.).****Magnets (Lifting).**

|                                            |                                        |
|--------------------------------------------|----------------------------------------|
| Igranic Electric Co., Ltd.                 | 147, Qn. Victoria St., B.C.            |
| Smith Thos., & Sons (Rodley), Ltd.         | Rodley, near Leeds                     |
| Westminster Tool & Electric Co.            | 116 Putney Bridge Rd., Putney, S.W. 15 |
| Witton-Kraemer Electric Tool & Holst Works | Witton, Birmingham                     |
| Wonnham, Bates & Goode, Inc.               | 3, London Wall Buildings, E.C.         |

**Magneto.**

British Lighting and Igni- }  
tion Co., Ltd. .. } Aston, Birmingham  
Handley Page, Ltd. .. } Croydon, Surrey

**Manganese Steel Castings and Forgings.**

Allen Edgar, & Co., Ltd. .. Sheffield  
Firth Thom., & Sons, Ltd. .. Norfolk Works, Sheffield  
Hadfields Limited .. Hecla Works, Sheffield  
Osborn Samuel, & Co., Ltd. Clyde Steel Wks., Sheffield  
Steven & Struthers .. Kelvinhaugh, Glasgow

**Manhole Doors.—(See also Boiler Manholes.)**

Barr, Thompson & Co., Ltd. Kilmarnock, Scotland  
McNeil C., Ltd. .. Glasgow

**Manufacturers.—(See also Patent Law.)**

Hunt Thomas, & Sons .. Bridge Rd., West Batterssea, S.W. 11

**Marine Auxiliaries.**

Carron Company .. Carron, Stirlingshire

**Mathematical Instrument Makers.—(See Drawing Instruments.)****Measuring Machines.—(See Micrometers.)****Mechanical Engineers (Consulting).**

Davey, Paxman & Co., Ltd. Colchester

**Merchants (Machinery, &c.).**

Adams & Benson, Ltd. .. Albion, West Bromwich  
Birch John, & Co., Ltd. .. 2, London Wall Buildings, E.C.

Church Street Machinery }  
& Engineering Corp'n. } 30, Church St., New York, U.S.A.

Howden Overseas Trading }  
Co., Ltd. } 103, St. Vincent St., Glasgow

Jennings Edward J. .. Westwalls, Newcastle-on-Tyne

MacLellan P. & W., Ltd. .. Clutha Works, Glasgow

Redpath, Brown & Co., Ltd. .. 2, St. Andrew Square, Edinburgh

Willcox W. H., & Co., Ltd. 32-38, Southwark St., S.B.

**Metallic Packing.**

Green & Boulding, Ltd. .. 28, New Bridge St., B.C.  
Lancaster & Tonge, Ltd. .. Pendleton, nr. Manchester.  
United States Metallic }  
Packing Co., Ltd. } Soho Works, Allerton Rd., Bradford

**Metals (Alloy Steels).**

Henderson, John M., & Co. King's Works, Aberdeen  
Newcastle Alloy Co., Ltd. Milburn House, Newcastle-on-Tyne

**Metals (Anti-Friction).**

Atlas Metals & Alloys, Ltd. 52, Qn. Victoria St., B.C.  
Birkett T. M., & Sons, Ltd. Hanley, Staffs.  
Bull's Metal & Melloid Co. Yoker, near Glasgow.  
Fry's Metal Foundry .. 25-42, Holland St., Blackfriars, S.E. 1

Hoyt Metal Co., Ltd. .. Deodar Rd., Putney, S.W. 15

**Metals (Anti-Friction)—Continued.**

Magnolia Anti-Friction Metal  
Co. of Great Britain, Ltd., 49, Qn. Victoria St., E.C.  
Richards J. H., & Co., Ltd. Cato St. North, Salfrey, Birmingham

**Metals (Phosphor Alloys, &c.).**

Armstrong Sir W. G., } 8, Great George St.,  
Whitworth, & Co., Ltd. } S.W. 1

Atlas Metal & Alloys Co., Ltd. 52, Qn. Victoria St., E.C.

Billington & Newton, Ltd. Longport, Staffordshire

Birkett T. M., & Sons, Ltd. Hanley, Staffordshire

Bolton Thomas, & Sons, Ltd. 57, Bishopsgate, E.C. 2

Bull's Metal & Melloid Co., Ltd. Yoker, near Glasgow

Delta Metal Co., Ltd. .. East Greenwich, S.E.

Bveritt & Co., Ltd. .. 40, Chapel St., Liverpool

Lunken Company, Ltd. .. 35, Great Dover St., S.B.

McKechnie Brothers, Ltd. Rotton Park St., Birmingham

Magnolia Anti-Friction }  
Metal Co., & Great } 49, Queen Victoria St., E.C.

Britain, Ltd. ..

Metallurgical Co., Ltd. .. Walker Gate, Newcastle-on-Tyne

Muntz P. H., & Co., Ltd. .. Alexandra Works, West Bromwich

Pegler Bros. & Co. (Glasgow), Ltd. ..

.. .. Anderson, Glasgow

Steven & Struthers .. Kelvinhaugh, Glasgow

Vickers Limited .. Vickers House, Broadway, Westminster, S.W.

Weir, G. & J. Ltd. .. Cathcart, Glasgow

**Meters.**

Glenfield & Kennedy, Ltd. Kilmarnock, N.B.

Guest & Chrimes .. Rotherham

Kent Geo., Ltd. .. 199, High Holborn, W.C.

Lea Recorder Co., Ltd. .. 28, Deansgate, Manchester

Siemens Bros. & Co., Ltd. Woolwich, S.E. 18

Worthington-Simpson, Ltd. Queen's House, Kingsway, W.C. 2

**Mica Merchants**

Wiggins F., & Sons .. 102, 103 & 104, Minorities, B.

**Micrometers.**

Armstrong Sir W.G., Whit- } 8, Great George St.  
worth & Co., Ltd. } S.W. 1

Bassett-Lowke, Ltd. .. Northampton

Buck & Hickman, Ltd. .. 2 & 4, Whitechapel Rd., E. 1

Newall Engineering Co. .. Walthamstow, E. 17

Notcutt Walter P., Ltd. .. 8, White St., Moorfields, E.C. 2

Precision Gauges, Ltd. .. Wrentham St., Birmingham

Shore Instrument & Mfg. Co. New York

Société Genevoise d'In- } 95, Queen Victoria St.,  
struments de Physique } E.C. 4

Williams J. H., & Co. .. 91, Richard St., Brooklyn, New York, U.S.A.

**Mill Gearing.—(See Wheels—Geared; also Shafting and Shaft Fittings.)**

**Mill Machinery (Flour, Corn and Rice).**

Blackstone & Co., Ltd. .. Rutland Wks., Stamford  
 Marshall, Sons & Co., Ltd. .. Gainsborough  
 Ransomes, Sims & Jefferies, Ltd. .. Ipswich  
 Robinson T., & Son, Ltd. .. Rochdale  
 Ruston & Hornsby, Ltd. .. Sheaf Ironworks, Lincoln

**Milling Cutters and Cutter Blanks.**

Apex Steel Company, Ltd. .. Penistone Rd., Sheffield  
 Armstrong Sir W. G., Whit- } 8, Great George St.,  
 worth & Co., Ltd. .. S.W. 1  
 Brook Tool Mfg. Co., Ltd. .. Belgrave Rd., Birmingham  
 Chatwin Thomas, Ltd. .. Great Tindal St., Birmingham  
 Churchill Chas., & Co., Ltd. .. 9 to 15, Leonard St., E.C.  
 Deloro Smelting & Refining Co., Ltd. .. 174, Corporation St., Birmingham  
 Fairley James, & Sons, Ltd. .. Birmingham and Sheffield  
 Fifth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Forbes Bros. .. Doe St., Birmingham  
 Muir Wm., & Co., Ltd. .. Sherbourne St., Manchester  
 Parc, Ltd. .. Clarence Wks., Lockhurst Lane, Coventry  
 Vickers Ltd. .. Broadway, S.W. 1

**Milling Machines.—(See Machine Tools.)****Mills (Paint, Oil, Mortar, &c.).**

Blackstone & Co., Ltd. .. Rutland Works, Stamford  
 Pratchitt Brothers .. Denton Ironwks, Carlisle  
 Smedley Bros., Ltd. .. Belper, Derbyshire

**Mining Machinery.—(See also Colliery Plant.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Allen W. H., Sons & Co., Ltd. .. Bedford  
 Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester  
 Barclay Andrew Sons & Co., Ltd. .. Caledonia Wks., Kilmar-nock, Scotland  
 Clay Cross Co., Ltd. .. Clay Cross, near Chesterfield [Derby  
 Coles H. J., Ltd. .. London Crane Works, Consolidated Pneumatic } Egyptian House, 170,  
 Tool Co., Ltd. .. Piccadilly, W.  
 Davey, Paxman & Co., Ltd. .. Colchester  
 Fifth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Fletcher George, & Co., Ltd. .. Litchurch, Derby  
 Fowler J., & Co. (Leeds), Ltd. .. Leeds  
 Hadfields Limited .. Hecla Works, Sheffield  
 Hathorn, Davey & Co., Ltd. .. Leeds [aby-on-Tees  
 Head, Wrightson & Co., Ltd. .. Teesside Ironwks., Thorne  
 Heenan & Froude, Ltd. .. Worcester  
 Jeffrey Manufacturing Co. .. Columbus, Ohio, U.S.A.  
 Marsden H. R., Ltd. .. Soho Foundry, Leeds  
 Marshall, Sons & Co., Ltd. .. Gainsborough  
 Pulsometer Eng. Co., Ltd. .. Nine Blms Ironworks, [Reading  
 Ransomes, Sims & Jefferies, Ltd. .. Ipswich  
 Rees Roturbo Manufacturing Co., Ltd. .. Wolverhampton  
 Robey & Co., Ltd. .. Lincoln  
 Ruston & Hornsby, Ltd. .. Lincoln and Grantham  
 Sandycroft, Ltd. .. Chester  
 Standard & Oswald Stott (Engineers), Ltd. .. Leicester.  
 Tangey Limited .. Birmingham  
 Vickers, Ltd. .. Barrow-in-Furness

**Mining Machinery—Continued.**

Walker Bros. (Wigan), } Pagefield Iron Works,  
 Ltd. .. Wigan  
 Worthington-Simpson, Ltd. .. Queen's House, Kingsway, W.C.

**Mint Machinery.**

Firth Thos., & Sons, Ltd. .. Norfolk Works, Sheffield  
 Taylor & Challen, Ltd. .. Birmingham

**Mixers.**

Davy Brothers, Ltd. .. Sheffield  
 Hardy & Padmore, Ltd. .. Worcester  
 Parker, Frederick .. Dunn's Lane, Leicester  
 Ransome's Machinery Co., } 14 and 16, Grosvenor Gar-  
 (1920) Ltd. .. dens, Westminster, S.W.  
 Stothert & Pitt, Ltd. .. Bath

**Model Makers.**

Rosser & Russell, Ltd. .. Queen's Wharf, Hammer-smith

**Motor Boats.—(See also Launches & Yachts.)**

Thornycroft J.I., & Co., Ltd. .. 10, Grosvenor Place, S.W. 1  
 Vosper & Co., Ltd. .. Portsmouth  
 White J. Samuel, & Co., Ltd. .. East Cowes, Isle of Wight  
 Wolseley Motors, Ltd. .. York St., Westminster, S.W.

**Motor Cars.—(See Motor Vehicles.)****Motor Starters and Accessories.**

Booth Joseph, & Bros., Ltd. .. Rodley, Leeds  
 British Thomson-Houston Co., Ltd. .. Rugby  
 Electric Control, Ltd. .. Bridgeton, Glasgow  
 Electro-Mechanical Brake Co., Ltd. .. West Bromwich  
 Holmes J. H., & Co. .. Newcastle-upon-Tyne  
 Igranic Electric Co., Ltd. .. 147, Queen Victoria St., B.C.  
 Metropolitan-Vickers Electrical Co., Ltd. .. Trafford Park, Manchester  
 Precision Gauges, Ltd. .. Wrentham St., Birmingham  
 Sandycroft Limited .. Chester

**Motor Vehicles.**

Albion Motor Car Co., Ltd. .. Scotstoun, Glasgow  
 Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow  
 Austin Motor Co., Ltd. .. Northfield, Birmingham  
 Avonside Engine Co., Ltd. .. Bristol  
 British Motor Trading Corporation, Ltd. .. 50, Pall Mall, S.W.  
 Broom & Wade, Ltd. .. High Wycombe  
 Clayton & Co. (Huddersfield), Ltd. .. Huddersfield  
 Hall J. & B., Ltd. .. 10, St. Swinith's Lane, B.C.  
 Marshall, Sons & Co., Ltd. .. Gainsborough  
 Maudslay Motor Co., Ltd. .. Parkside, Coventry  
 Robey & Co., Ltd. .. Lincoln  
 Stewart Duncan, & Co., Ltd. .. Glasgow  
 Thornycroft J.I., & Co., Ltd. .. 10, Grosvenor Place, S.W. 1  
 Tilling-Stevens Motors, Ltd. .. Maidstone  
 Walker Brothers (Wigan), } Pagefield Ironworks,  
 Ltd. .. Wigan  
 Wolseley Motors, Ltd. .. York St., S.W.

**Motors.**—(See *Electric Motors*.)**Moulding Machines.**

Adaptable Moulding Ma- } Stanhope St., Birming-  
chine Co. . . . . } ham  
Wallwork Henry & Co., Ltd. Manchester

**Nail (Wire, &c.), Making Machinery.**

Sleeper & Hartley (Inc.).. Worcester, Mass., U.S.A.

**Name Plates.**

Butler-Jones (Nameplates), } Dartmouth Wks., Forest  
Ltd. . . . . } Hill, S.E. 23  
United Metal Engraving } 40, High Bridge, New-  
Co., Ltd. . . . . } castle-on-Tyne

**Non-Conducting Compositions.**

Bell's United Asbestos Co.,  
Ltd. . . . . 59j, Southwark St., S.B.  
Kenyon Wm., & Sons, Ltd. Dufkinfield, Manchester  
Leroy F., & Co. . . . . 20, Gray St., B.  
Newall's Insulation Co., Ltd. Newcastle-on-Tyne  
Sutcliffe Bros. . . . . Soho Wks., Godley, near  
Manchester  
Tranter W. J., Ltd. . . . . Tipton, Staffs  
Turner Bros. Asbestos Co.,  
Ltd. . . . . Rochdale

**Nut-Making Machines.**

Platt Samuel, Ltd. . . . . Wednesbury  
Taylor & Challen, Ltd. . . . . Birmingham

**Office Fittings, Furniture and Appliances.**

Halden J., & Co., Ltd. . . . . 8, Albert Sq., M'chester  
Kalamazoo Limited . . . . . Northfield, Birmingham

**Oil Cans.**

Braime T. F., & Co., Ltd. Hunslet, Leeds  
Kaye Jos., & Sons, Ltd. . . . Lock Works, Leeds

**Oil Extractors.**

Alley & Macellan, Ltd. . . . Sentinel Works, Glasgow  
Churchill C., & Co., Ltd. . . 9-r5, Leonard St., B.C.  
Kenyon Alexander, & Co. Victoria Bridge, Man-  
chester

Ohio Body & Blower Co. . . . Cleveland, Ohio, U.S.A.  
Paterson Engineering Co. . . 21, Windsor House,  
Kingsway, W.C.2

Premier Cooler & Engineer- } Station Works, Shalford  
ing Co., Ltd. . . . . } nr. Guildford, Surrey  
Princopts & Co. . . . . Sheffield  
Royles Limited . . . . . Irlam, nr. Manchester  
Worthington-Simpson, Ltd. Queen's House, Kings-  
way, W.C.2

**Oil Filters and Coolers.**

Griscom-Russell Co. . . . . 95, West St., New York,  
U.S.A.  
Harris & Atkins . . . . . 56, Blackfriars Rd., S.E.1  
Heenan & Proude, Ltd. . . . Worcester, England  
Kenyon Alexander, & Co. Victoria Bridge, Man-  
chester

Kermodes Ltd. . . . . 35, The Temple, Dale  
St., Liverpool

Lipscombe Fredk., & Co. . . 84, Albert Buildings,  
E.C.4

Wells A. C., & Co. . . . . 102, Midland Rd., St.  
Pancras, N.W.

**Oil Fuel.**—(See *Liquid Fuel*.)**Oil Fuel Burners.**

Kermodes, Ltd. . . . . 35, The Temple, Dale  
St., Liverpool  
Scarab Oil Burning Co., } 28, Charles St., Hay-  
Ltd. . . . . } market, S.W.1

**Oil Mill and Refining Machinery.**

Craig A. F., & Co., Ltd. . . Paisley, Scotland  
Manlove, Allott & Co., Ltd. Nottingham  
Middleton Robert, & Co. . . Sheepscair F'ndry, Leeds  
Musgrave Brothers . . . . Crown Point Foundry,  
Rose, Downs & Thompson, } [Leeds  
Ltd. . . . . } Old Foundry, Hull

**Oils.**—(See *Lubricants and Liquid Fuel*.)**Organisation (Works).****Ore Crushing Machinery.**—(See also *Disintegrators, and Stonebreakers*.)

Allen Edgar, & Co., Ltd. . . Sheffield  
Bradley Pulverizer Co. . . . 37, Walbrook, E.C.  
Davey, Paxman & Co., Ltd. Colchester  
Hadfields Limited . . . . . Hecla Works, Sheffield  
Marsden H. R., Ltd. . . . . Soho Foundry, Leeds  
Robey & Co., Ltd. . . . . Lincoln  
Ruston & Hornsby, Ltd. . . Grantham  
Sandycroft Limited . . . . . Chester  
Smith F. L., & Co., Ltd. . . 20, Essex St., W.C.2  
Sturtevant Engineering Co., } 147, Queen Victoria St.,  
Ltd. . . . . } B.C.

**Overalls for Engineers, &c.**

Paisleys Ltd. . . . . 72-96, Jamaica St., Glas-  
gow

**Oxygen.**—(See *Gases, Oxygen, and Welding and Cutting Plant*.)**Packing Cases and Packing Materials.**

Olsen, William, Ltd. . . . . Cogan St., Hull  
Southern James W., & Son,  
Ltd. . . . . Store St., Manchester

**Packing (Engine and Hydraulic).**—(See also *Joining Materials, Leathers (Hydraulic, &c.) and Metallic Packing*.)

Beldam Packing & Rubber } 29, Gracechurch St.,  
Co., Ltd. . . . . } B.C.3

Bell's United Asbestos Co.,  
Ltd. . . . . 59j, Southwark St., S.B.  
Cape Asbestos Co., Ltd. . . . 23, King St., E.C.  
Davey, Paxman & Co., Ltd. Colchester  
Green & Boulding, Ltd. . . . 28, New Bridge St., B.C.  
Gutta Percha & Rubber, Ltd. Toronto, Canada  
Lindsay R. E., & Co. . . . . 38, Mair St., Glasgow  
Reddaway F., & Co., Ltd. Pendleton, Manchester  
Rose, Downs & Thompson,  
Ltd. . . . . Old Foundry, Hull

Thomas & Bishop . . . . . 37, Tabernacle St., E.C.  
Turner Bros. Asbestos  
Co., Ltd. . . . . Rochdale

United States Metallic } Soho Wks., Allerton Rd.,  
Packing Co., Ltd. } Bradford

Walker James, & Co., Ltd. Lion Works, Poplar, E.  
Willcox W. H., & Co., Ltd. 32-38, Southwark St., S.B.  
Woodite Company . . . . . Mitcham Common, Surrey

**Paint Mill.—(See Mills—Paint, Oil, Mortar &c.)****Paints, Varnishes, &c.**

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Airstyle & Lithos, Ltd.          | 35, St. Bride St., E.C.                      |
| Bell's United Asbestos Co., Ltd. | 59, Southwark St., S.E.                      |
| Bowran Robert, & Co., Ltd.       | 4, St. Nicholas Buildings, Newcastle-on-Tyne |
| Cuirass Products, Ltd.           | 69, Victoria St., S.W. 1                     |
| Dixon Joseph, Crucible Co.       | 28, Victoria St., S.W. 1                     |
| Dixon's White, Ltd.              | Albion Wharf, Bow, E.                        |
| Graphite Products, Ltd.          | 218-220, Queen's Rd., Battersea, S.W. 8      |
| Hamilton A. H., & Co.            | Possilpark, Glasgow                          |
| Hill W. W., Son & Wallace, Ltd.  | Broughton, Manchester                        |
| Ironite Co., Ltd.                | 11, Old Queen St., Westminster, S.W. 1       |
| Lactocol Limited                 | 2, Studley Rd., Stockwell, S.W. 4            |
| Sozol Limited                    | 20, Copthall Avenue, E.C. 2                  |

**Patent Agents.**

|                            |                                         |
|----------------------------|-----------------------------------------|
| Alexander E. P., & Son     | 306, High Holborn, W.C.                 |
| Andrews & Beaumont         | 29, Southampton Buildings, W.C. 2       |
| Jensen & Son               | 77, Chancery Lane, W.C.                 |
| King's Patent Agency, Ltd. | 165, Queen Victoria St., E.C. 4         |
| Raworth John E. & Moss     | 75, Victoria St., S.W. 1                |
| Sokal S.                   | 1, Great James St., Bedford Row, W.C. 1 |

**Patent Law (Manufacturers under).**

|                        |                             |
|------------------------|-----------------------------|
| Rosser & Russell, Ltd. | Queen's Wharf, Hammer-smith |
|------------------------|-----------------------------|

**Pattern Makers.**

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Hull General Pattern Mak- ing Works | 58, Strawberry St., Dry- pool, Hull |
| Kynoch, Ltd.                        | Witton, Birmingham                  |

**Pencils.—(See Drawing Instrument.)****Perforated Metals.**

|                     |                                       |
|---------------------|---------------------------------------|
| Harvey G. A., & Co. | Greenwich Metal Works, (London), Ltd. |
| Hudson Thomas, Ltd. | Woolwich Rd., S.E.                    |
|                     | Sheepford Bridge, Coat-bridge         |

**Permanent Way.—(See also Rails—Steel & Iron, and Railway & Contractors' Plant.)**

|                         |                                |
|-------------------------|--------------------------------|
| Bagnall W. G., Ltd.     | Castle Eng. Wks., Stafford     |
| Birch John, & Co., Ltd. | 2, London Wall Buildings, E.C. |

**Petrol Storage.**

|                                   |                                           |
|-----------------------------------|-------------------------------------------|
| Baldwins Ltd.                     | 3, St. Helens Place, E.C.                 |
| Braby Fred., & Co., Ltd.          | Fitzroy Wks., 352-364, Euston Rd., N.W. 1 |
| Brown, Lenox & Co. (London), Ltd. | Poplar, E.                                |

**Petrol and its Substitutes.****Photography and Materials, &c., and Appliances for Photography Printing and Copying Processes.**

|                         |                                                 |
|-------------------------|-------------------------------------------------|
| Halden J., & Co., Ltd.  | 8, Albert Sq., Manchester                       |
| Hall B. J., & Co., Ltd. | Chalfont Hse., Gt. Peter St., Westminster, S.W. |
| Herbert Alfred, Ltd.    | Coventry                                        |

**Picks, Shovels and Spades.**

|                   |                        |
|-------------------|------------------------|
| Hadfields Limited | Hecla Works, Sheffield |
|-------------------|------------------------|

**Pile Drivers.**

|                             |                                       |
|-----------------------------|---------------------------------------|
| Browning Co.                | Cleveland, Ohio, U.S.A.               |
| Gibbins R. C., & Co.        | Berkley St., Birmingham               |
| Lidgerwood Limited          | Friar's House, New Broad Street, E.C. |
| Whitakers (Engineers), Ltd. | Horsforth, Leeds                      |

**Piles, Sheet-Steel Piling and Pile Shoes.**

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Ransomes Machinery Co. | 14 & 16, Grosvenor Gar- dens, Westminster, S.W. |
| (1920), Ltd.           |                                                 |
| Stewart J. & W.        | 12, Berkeley St., W. 1                          |

**Pins (Taper).**

|                        |                             |
|------------------------|-----------------------------|
| Mountford Fredk., Ltd. | Old Cross St., Birming- ham |
|------------------------|-----------------------------|

**Pipe Founders.—(See also Tubes.)**

|                                      |                              |
|--------------------------------------|------------------------------|
| Ashmore, Benson, Pease and Co., Ltd. | Stockton-on-Tees [field]     |
| Clay Cross Co., Ltd.                 | Clay Cross, nr. Chester-     |
| Ham, Baker & Co., Ltd.               | Langley Green, Birming- ham  |
| Hollingsdrake H., & Son, Ltd.        | Stockport                    |
| Pulsometer Engineering Co., Ltd.     | Nine Blms Ironworks, Reading |
| Tubi-Togni, Ltd.                     | Brescia, Italy               |

**Pipe Screwing and Cutting Machinery.**

|                          |                   |
|--------------------------|-------------------|
| Heap Joshua, & Co., Ltd. | Ashton-under-Lyne |
| Maiden & Co., Ltd.       | Hyde, Cheshire    |
| Platt Samuel, Ltd.       | Wednesbury        |
| Tangyes Limited          | Birmingham        |

**Pipes (Large and Lap Welded).**

|                  |                |
|------------------|----------------|
| Tubi-Togni, Ltd. | Brescia, Italy |
|------------------|----------------|

**Pipes (Wrought-Iron and Steel).—(See also Tubes—Iron and Steel.)**

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| American Steel Export Co.            | Woolworth Building, New York, U.S.A.                    |
| Ashmore, Benson, Pease and Co., Ltd. | Stockton-on-Tees                                        |
| Bellamy John, Ltd.                   | Millwall, B.                                            |
| Boving & Co., Ltd.                   | 56, Kingsway, W.C. 2                                    |
| Clayton, Son & Co., Ltd.             | Hunslet, Leeds                                          |
| Crane-Bennett, Ltd.                  | 45-51, Leman St., E. 1                                  |
| Houston J. W., & Co.                 | Partick Cross, Glasgow                                  |
| Howden Overseas Trading Co., Ltd.    | 105, St. Vincent St., Glasgow                           |
| Howell & Co., Ltd.                   | Brook Steel Works, Shef- field                          |
| Mechans Limited                      | Scotstoun Ironworks, Glasgow                            |
| Millwall Engineering Co., Ltd.       | 21, Panton St., S.W. 1                                  |
| Piggott Thos., & Co., Ltd.           | Springhill, Birmingham                                  |
| Scottish Tube Co., Ltd.              | 34, Robertson St., Glas- gow                            |
| Steel Construction Co., Ltd.         | Craighall Ironworks, Glasgow                            |
| Steel Pipe Company, Ltd.             | Kirkcaldy, N.B.                                         |
| Stewarts & Lloyds, Ltd.              | 41, Oswald St., Glasgow; Broad St. Chambers, Birmingham |
| Tubi-Togni, Ltd.                     | Brescia, Italy                                          |

**Pistons and Piston Rings.**

|                               |                            |
|-------------------------------|----------------------------|
| British Piston Ring Co., Ltd. | Holbrook Lane, Coventry    |
| Edmeston A. & Sons            | Patricroft, nr. Manchester |
| Lancaster & Tonge, Ltd.       | Pendleton, Manchester      |
| Lockwood & Carlisle, Ltd.     | Bagle Foundry, Sheffield   |
| McNeill C., Ltd.              | Glasgow                    |

**Planing Machines.—(See Machine Tools.)****Plates (Dished and Flanged).**

|                             |                  |
|-----------------------------|------------------|
| Abbott & Co. (Newark), Ltd. | Newark-on-Trent  |
| Hudson Thomas, Ltd.         | Coatbridge, N.B. |

**Plates (Iron and Steel).**

|                           |                                      |
|---------------------------|--------------------------------------|
| American Steel Export Co. | Woolworth Building, New York, U.S.A. |
|---------------------------|--------------------------------------|

|                              |                         |
|------------------------------|-------------------------|
| Beardmore Wm., & Co., Ltd.   | Glasgow                 |
| Colville David, & Sons, Ltd. | Motherwell, nr. Glasgow |

|                           |                       |
|---------------------------|-----------------------|
| Dunkley C. C. & Co., Ltd. | Store St., Manchester |
|---------------------------|-----------------------|

|                                |                  |
|--------------------------------|------------------|
| Glasgow Iron & Steel Co., Ltd. | Wishaw           |
| Lanarkshire Steel Co., Ltd.    | Motherwell, N.B. |

|                             |                                 |
|-----------------------------|---------------------------------|
| Leeds Forge Co., Ltd.       | Leeds                           |
| Morden S. H., & Co., Ltd.   | 18, Dartmouth St., S.W. 1       |
| Steel Co. of Scotland, Ltd. | 23, Royal Exchange Sq., Glasgow |

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Stewarts & Lloyds, Ltd. | 41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham |
|-------------------------|-----------------------------------------------------------|

|                                         |                                |
|-----------------------------------------|--------------------------------|
| Stringer Bros.                          | West Bromwich                  |
| Wolverhampton Corrugated Iron Co., Ltd. | Ellesmere Port, nr. Birkenhead |
| Zoethout J., Jzn.                       | The Hague, Holland             |

**Turner Blocks.—(See also Bearings.)**

|                                             |                             |
|---------------------------------------------|-----------------------------|
| Platt Samuel, Ltd.                          | Wednesbury                  |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. Manchester  |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                   |
| Taylor & Challen, Ltd.                      | Birmingham                  |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester |

**Pneumatic Tools.**

|                                            |                             |
|--------------------------------------------|-----------------------------|
| Armstrong Sir W. G., Whitworth & Co., Ltd. | 8, Great George St., S.W. 1 |
|--------------------------------------------|-----------------------------|

|                                       |                                       |
|---------------------------------------|---------------------------------------|
| Bristol Pneumatic Tools, Ltd.         | 140, Victoria St., Bristol            |
| Consolidated Pneumatic Tool Co., Ltd. | 170, Egyptian House, Piccadilly, W. 1 |
| Gilman Frank                          | 9, Westfield Rd., Birmingham          |

|                                       |                                    |
|---------------------------------------|------------------------------------|
| Globe Pneumatic Engineering Co., Ltd. | 1, Victoria St., Westminster, S.W. |
|---------------------------------------|------------------------------------|

|                                        |                               |
|----------------------------------------|-------------------------------|
| Howard Pneumatic Engineering Co., Ltd. | Eastbourne                    |
| Ingersoll-Rand Co.                     | 165, Queen Victoria St., E.C. |

|                                                   |                         |
|---------------------------------------------------|-------------------------|
| Stevens, Clement, Pneumatic Engineering Co., Ltd. | 29, Spenser St., S.W. 1 |
|---------------------------------------------------|-------------------------|

**Poles, Posts and Standards.**

|                         |                            |
|-------------------------|----------------------------|
| Scottish Tube Co., Ltd. | 34, Robertson St., Glasgow |
|-------------------------|----------------------------|

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| Stewarts & Lloyds, Ltd. | 41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham |
|-------------------------|-----------------------------------------------------------|

**Portable Engines.—(See Engines—Light and Portable.)****Portable Railways.—(See Railways—Light & Portable.)****Pottery and Encaustic Tile Machinery.—(See Brick & Tile-Making Machinery.)****Pressed Steel and Metal Work.**

|                                               |                       |
|-----------------------------------------------|-----------------------|
| Birmingham Railway Carriage & Wagon Co., Ltd. | Smethwick, Birmingham |
| Bradley & Co., Ltd.                           | Bilston               |

|                                 |                     |
|---------------------------------|---------------------|
| Danks H. & T. (Netherton), Ltd. | Netherton, Dudley   |
| Fisher & Ludlow, Ltd.           | Rea St., Birmingham |
| Hurst, Nelson & Co., Ltd.       | Motherwell, N.B.    |

|                        |         |
|------------------------|---------|
| Leeds Forge Co., Ltd.  | Leeds   |
| McNeill, Charles, Ltd. | Glasgow |

|                                |                                               |
|--------------------------------|-----------------------------------------------|
| Thompson Bros. (Bilston), Ltd. | Bradley Engineering and Boiler Works, Bilston |
| Thompson John, Ltd.            | Wolverhampton                                 |

**Presses (Hydraulic).—(See Hydraulic Presses.)****Presses (Hand and Power).**

|                                 |                         |
|---------------------------------|-------------------------|
| At Manufacturing Co.            | Sunbridge Rd., Bradford |
| Brett's Patent Lifter Co., Ltd. | Coventry                |
| Fawcett, Preston & Co., Ltd.    | Liverpool               |

|                           |                          |
|---------------------------|--------------------------|
| Glover W. T., & Co., Ltd. | Trafford Pk., Manchester |
| Hands John, & Sons, Ltd.  | Birmingham               |
| Hollings & Guest, Ltd.    | Birmingham               |

|                    |                        |
|--------------------|------------------------|
| Hordern & Mason    | St. Mary's, Birmingham |
| Kynoch, Ltd.       | Witton, Birmingham     |
| Platt Samuel, Ltd. | Wednesbury             |

|                             |                       |
|-----------------------------|-----------------------|
| Pleck Foundry Co., Ltd.     | Walsall               |
| Stewart Duncan, & Co., Ltd. | London Rd. Ironworks, |
| Taylor & Challen, Ltd.      | Birmingham [Glasgow]  |

**Propellers.—(See Screw Propellers.)****Propellers (Air).—(See also Fans & Blowers, and Ventilators.)**

|                              |              |
|------------------------------|--------------|
| Alldays & Onions, Ltd.       | Birmingham   |
| Donkin Co., Ltd. (The Bryan) | Chesterfield |

|                                  |                               |
|----------------------------------|-------------------------------|
| Sturtevant Engineering Co., Ltd. | 147, Queen Victoria St., E.C. |
|----------------------------------|-------------------------------|

**Publishers.**

|                      |                         |
|----------------------|-------------------------|
| Arnold Edward        | 41 & 43, Maddox St., W. |
| Chapman & Hall, Ltd. | 11, Henrietta St., W.C. |

|                           |                              |
|---------------------------|------------------------------|
| Compendium Publishing Co. | 93/94, Chancery Lane, W.C. 2 |
| Constable A., & Co., Ltd. | 10, Orange St., W.C.         |
| "Engineering," Ltd.       | 35 & 36, Bedford St., W.C.   |

|                         |                              |
|-------------------------|------------------------------|
| General Electric Review | 77, Upper Thames St., E.C. 4 |
|-------------------------|------------------------------|

|                              |                                                 |
|------------------------------|-------------------------------------------------|
| Griffin Charles, & Co., Ltd. | Bxeter St., Strand, W.C.                        |
| Howell W. R., & Co.          | 42, Theobalds Rd., W.C. 1                       |
| Library Press, Ltd.          | 1, Portugal St. Buildings, Portugal St., W.C. 2 |

|                                |                               |
|--------------------------------|-------------------------------|
| Lockwood, Crosby & Son         | 7, Stationers' Hall Ct., E.C. |
| Longmans, Green & Co.          | 39, Paternoster Row, E.C.     |
| Machinery Publishing Co., Ltd. | 51, Chancery Lane, W.C. 2     |

|                                  |                           |
|----------------------------------|---------------------------|
| MacMillan & Co., Ltd.            | St. Martin's St., W.C. 2  |
| McGraw-Hill Publishing Co., Ltd. | 6 & 8, Bouverie St., E.C. |

|                                |                                   |
|--------------------------------|-----------------------------------|
| Pitman Sir Isaac, & Sons, Ltd. | Parker St., Kingsway, W.C. 2      |
| Scott, Greenwood & Son         | 8, Broadway, Ludgate Hill, E.C. 4 |

|                           |                       |
|---------------------------|-----------------------|
| Selwyn James, & Co., Ltd. | 20, Essex St., W.C. 2 |
| Spon E. & F. N., Ltd.     | 57, Haymarket, S.W.   |

**Pulley Blocks.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.  
 Gibbins R. C., & Co. .. Berkley St., Birmingham  
 Holt & Willetts .. Cradley Heath  
 Morris Herbert, Ltd. .. Loughborough, England  
 Tangyes Limited .. Birmingham  
 Vaughan Crane Co. .. Openshaw, Manchester  
 Yale & Towne Manufactur- }  
 ing Co. .. } 15, Mallow St., Old St.,  
 Youngs .. } E.C.1  
 Ryland St. Works, Bir-  
 mingham

**Pulleys (Cast Iron).**

Bodley Brothers & Co. .. Exeter  
 Crofts (Engineers), Ltd. .. Empire Works, Bradford  
 Fraser, Douglas, & Sons, Ltd. .. Arbroath  
 Jardine, J. .. Deering St., Nottingham  
 Platt Samuel, Ltd. .. Wednesbury  
 Richards Geo., & Co., Ltd. Broadheath, nr. M'chester  
 Smith & Grace Screw Boss Pulley Co., Ltd. .. Thrapston  
 Taylor & Challen, Ltd. .. Birmingham  
 Unbreakable Pulley & Mill }  
 Gearing Co., Ltd. .. } 48, West Gorton, Man-  
 chester  
 Walford T. J. .. Charles Henry St., Bir-  
 mingham  
 Wigglesworth F. & Co., Ltd. Shipley, near Bradford

**Pulleys (Wood).****Pulleys (Wrought Iron and Steel).**

Barry Henry, & Cook, Ltd. Aberdeen  
 Crofts (Engineers), Ltd. .. Empire Works, Bradford  
 Douglas, Lawson & Co. .. Birstall, near Leeds  
 Fraser, Douglas, & Sons, Ltd. .. Arbroath  
 Hudswell, Clarke & Co., Ltd. Railway Foundry, Leeds  
 Jardine, J. .. Deering St., Nottingham  
 Platt Samuel, Ltd. .. Wednesbury  
 Richards Geo., & Co., Ltd. Broadheath, nr. M'chester  
 Skeffko Ball Bearing Co., Ltd. .. Skeffko Works, Luton,  
 Beds.  
 Smith & Grace Screw Boss Pulley Co., Ltd. .. Thrapston  
 Stothert & Pitt, Ltd. .. Bath  
 Unbreakable Pulley & Mill }  
 Gearing Co., Ltd. .. } 48, West Gorton, Man-  
 chester  
 Wigglesworth F., & Co., Ltd. Clutch Works, Shipley,  
 near Bradford

**Pulverizers.—(See also Disintegrators.)**

Allen Edgar, & Co., Ltd. .. Sheffield  
 Bradley Pulverizer Co. .. 37, Walbrook, E.C.  
 Fuller-Lehigh Co. .. Fullerton, Pa., U.S.A.  
 Jeffrey Manufacturing Co. Columbus, Ohio, U.S.A.  
 Patent Lightning Crusher }  
 Co., Ltd. .. } 14A, Rosebery Av., Gray's  
 Inn Rd., W.C.

**Pumps (Air).—(See Air Pumps.)****Pumps (Centrifugal).**

Allen W. H., Sons, & Co., Ltd. Bedford  
 Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Boving & Co., Ltd. .. 56, Kingsway, W.C. 2  
 British Electric Plant Co., Ltd. .. 66, Carrick St., Glasgow  
 Brooke Tool Mfg. Co., Ltd. Belgrave Rd., Birmingham  
 Campbell & Calderwood .. Soho Works, Paisley,  
 Scotland

**Pumps (Centrifugal)—Continued.**

Collins & Co. .. Cheetham Hill, Man-  
 chester  
 Drysdale & Co., Ltd. .. Bon Accord Wks., Yoker,  
 Glasgow, W.  
 Entwistle & Gass, Ltd. .. Bolton  
 Escher, Wyss & Co. .. 20, Grosvenor Gardens,  
 S.W.1  
 Gunther W., & Sons .. Central Works, Oldham  
 Guthrie & Co. .. St. James's Chambers,  
 Accrington  
 Gwynnes Engineering Co., }  
 Ltd. .. } Hammersmith Ironwks.  
 W.  
 Hathorn, Davey & Co., Ltd. Leeds  
 Lobnitz & Co., Ltd. .. Renfrew  
 Paul Matthew, & Co., Ltd. Levenford Works, Dum-  
 barton  
 Pulsometer Engineering }  
 Co., Ltd. .. } Nine Elms Ironworks,  
 Reading  
 Rees Roturbo Manufac- }  
 turing Co., Ltd. .. } Wolverhampton, Eng.  
 Ruston & Hornsby, Ltd. .. Sheaf Ironwks., Lincoln  
 Simons W., & Co., Ltd. .. Renfrew, N.B.  
 Sulzer Brothers .. 31, Bedford Sq., W.C. 1  
 Tangyes Limited .. Birmingham  
 Worthington-Simpson, Ltd. Queen's House, Kings-  
 way, W.C. 2

**Pumps (Colonial).**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Caird & Rayner .. 777, Commercial Rd.,  
 Limehouse, E.  
 Evans Joseph, & Sons (Wol- }  
 verhampton), Ltd. .. } Wolverhampton  
 Picard A. .. } 4, New Burlington St.,  
 W.1  
 Pulsometer Engineering }  
 Co., Ltd. .. } Nine Elms Ironworks,  
 Reading  
 Weir G. & J., Ltd. .. Cathcart, Glasgow  
 Worthington-Simpson, Ltd. Queen's House, Kings-  
 way, W.C.

**Pumps (Donkey).**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Caird & Rayner .. 777, Commercial Rd., B.  
 Cameron John, Ltd. .. Salford  
 Carruthers J. H., & Co., Ltd. Polmadie Ironwks., Glas-  
 gow  
 Clarke, Chapman & Co., Ltd. .. Gateshead-on-Tyne  
 Evans Joseph, & Sons (Wol- }  
 verhampton), Ltd. .. } Wolverhampton  
 Friedenthals, Ltd. .. Preston  
 Hall J. P., & Sons .. Peterborough  
 Hathorn, Davey & Co., Ltd. Leeds  
 Mumford A. G., Ltd. .. Colchester  
 Piggett Thos., & Co., Ltd. Springhill, Birmingham  
 Pulsometer Engineering }  
 Co., Ltd. .. } Nine Elms Ironworks,  
 Reading  
 Robey & Co., Ltd. .. Lincoln  
 Shore Thos., & Sons, Ltd. Etruria, Stoke-on-Trent  
 Tangyes Limited .. Birmingham  
 Worthington-Simpson, Ltd. Queen's House, Kings-  
 way, W.C.

**Pumps and Pumping Machinery.**

Aldrich Pump Co. .. Allentown, Pa., U.S.A.  
 Allen W. H., Sons, & Co., Ltd. Bedford  
 American Steel Export Co. Woolworth Building,  
 New York, U.S.A.



**Pumps and Pumping Machinery.—Continued.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester  
 Barclay Andrew, Sons & Co., Ltd. Caledonia Wks., Kilmar-  
 Co., Ltd. ... } nock, Scotland  
 Berry Henry, & Co. Ltd. ... } Crofton Works, Leeds  
 Bever, Doring & Co., Ltd. } Bradford  
 Brooke Tool Manufacturing } Belgrave Road, Birming-  
 Co. Ltd. ... } ham  
 Brotherhood Peter, Ltd. ... } Peterborough  
 Caird & Rayner ... } 777, Commercial Rd., E.  
 Cameron John, Ltd. ... } Oldfield Rd. Ironworks,  
 Campbell Gas Engine Co., } [Salford  
 Ltd. ... } Halifax, England  
 Carruthers J. H., & Co., Ltd. } Polmadie Ironwks., Glas-  
 Chaplin Alex., & Co. ... } Govan, Glasgow  
 Church Street Machinery } 30, Church St., New  
 & Engineering Corp. ... } York, U.S.A.  
 Clarke, Chapman & Co., Ltd. } Gateshead-on-Tyne  
 Davey, Paxman & Co., Ltd. } Colchester  
 Davy Brothers, Ltd. ... } Sheffield  
 Dawson & Downie, Ltd. ... } Elgin Works, Clydebank  
 De Laval Steam Turbine } 150, Southampton Row,  
 Co. ... } W.C.  
 Downton J., & Co., Ltd. ... } Hamilton, Scotland  
 Drum Engineering Co., Ltd. } 28, Humboldt St.,  
 Bradford  
 Drysdale & Co., Ltd. ... } Bon Accord Wks., Yorker,  
 East Ferry Road Engineer- } [Glasgow, W.  
 ing Works Co., Ltd. ... } Millwall, B.  
 Ellison W. T., & Co., Ltd. ... } Irlams - o' - th' - Height,  
 Manchester  
 Escher, Wyss & Co. ... } 20, Grosvenor Gardens,  
 S.W.1  
 Evans Joseph, & Sons (Wol- } Wolverhampton  
 verhampton), Ltd. ... } Liverpool  
 Fawcett, Preston & Co., Ltd. } Paisley, N.B.  
 Fleming & Ferguson, Ltd. ... } River Engine Wks., Preston  
 Friedenthal, Ltd. ... } Cincinnati, Ohio, U.S.A.  
 Fulford Pump Co. ... } Vulcan Foundry and  
 Fullerton, Hodgart & } Engine Works, Paisley  
 Barclay, Ltd. ... } Kilmarnock, N.B.  
 Glenfield & Kennedy, Ltd. } Kilmarnock  
 Grant, Ritchie & Co., Ltd. } Hammersmith Ironwks.,  
 Gwynnes Engineering Co., } W.  
 Ltd. ... } Peterborough  
 Hall J. P., & Sons, Ltd. ... } 76, Victoria St., S.W.  
 Hamworthy Engineering } Leeds  
 Co., Ltd. ... } 99, Queen Victoria St., E.C.  
 Hathorn, Davey & Co., Ltd. } Thimble Mill Lane, Bir-  
 Hayward, Tyler & Co., Ltd. } mingham  
 Hollings & Guest, Ltd. ... } 105, St. Vincent St.,  
 Glasgow  
 Howden Overseas Trading } 16, Victoria St., S.W.  
 Co., Ltd. ... } Hammersmith, W. 6  
 Hughes & Lancaster ... } 101, Leadenhall St., E.C. 3  
 Hydraulic Gears Ltd. ... } Pendleton, nr. M'chester  
 Kirkaldy John, Ltd. ... } Rodley, near Leeds  
 Lancaster & Tonge, Ltd. ... } Hollinwood, nr. Man-  
 Leeds Engineering & Hy- } chester  
 draulic Co., Ltd. ... } Dursley  
 Lees T. & R. ... } 35, Great Dover St., S.E.  
 Lister R. A., & Co., Ltd. ... } Nottingham  
 Lunken Co., Ltd. ... } Boston, Mass, U.S.A.  
 Manlove, Allott & Co., Ltd. } 63, Long Acre, W.C.  
 Mason Regulator Co. ... } Leek, Staffs.  
 Merryweather & Sons, Ltd. } Colchester  
 Moorlands Engineering Co., }  
 Ltd. ... }  
 Mumford A. G., Ltd. ... }

**Pumps and Pumping Machinery.—Continued.**

Musgrave Bros. ... } Leeds  
 Nichols Pump & Engineer- } Northallerton, Yorks.  
 ing Co., Ltd. ... } Newcastle-on-Tyne  
 Parsons C. A., & Co., Ltd. } Levenford Wks., Dumbar-  
 Paul Matthew, & Co., Ltd. } ton  
 Pearn Frank, & Co., Ltd. ... } Manchester  
 Picard A. ... } 4, New Burlington St.,  
 W.1  
 Piggott Thos., & Co., Ltd. ... } Springhill, Birmingham  
 Pleck Foundry Co., Ltd. ... } Walsall  
 Pratchitt Bros. ... } Denton Ironwks., Carlisle  
 Pulsometer Eng. Co., Ltd. ... } Nine Elms Ironworks,  
 Reading  
 Ransomes & Rapier, Ltd. ... } Ipswich  
 Ransomes, Sims & Jefferies, }  
 Ltd. ... } Ipswich  
 Rees Roturbo Manufac- }  
 turing Company, Ltd. ... } Wolverhampton, Eng.  
 Rice & Co. (Leeds), Ltd. ... } Elland Rd., Leeds  
 Robey & Co., Ltd. ... } Lincoln  
 Ruston & Hornsby, Ltd. ... } Grantham  
 Sandycroft Limited ... } Chester  
 Scout Motors, Ltd. ... } Churchfields, Salisbury  
 Shore Thos., & Sons, Ltd. } Etruria, Stoke-on-Trent  
 Stothert & Pitt, Ltd. ... } Bath  
 Sulzer Brothers ... } 31, Bedford Sq., W.C. 1  
 Tangyes Limited ... } Birmingham  
 Thornycroft J. I., & Co., Ltd. } 10, Grosvenor Place,  
 S.W.1  
 Turnbull Alex., & Co., Ltd. } Bishopbriggs, Glasgow  
 United Brassfounders & }  
 Engineers, Ltd. ... } Cornbrook, Manchester  
 Uxside Iron Works ... } Newport, Mon.  
 Warner Robert, & Co. } 14-16, Cockspur St.,  
 (Engineers), Ltd. ... } S.W. 1  
 Weir G. & J., Ltd. ... } Cathcart, Glasgow  
 Westinghouse Brake & } York Rd., King's Cross,  
 Saxby Signal Co., Ltd. ... } N.  
 Willcox W. H., & Co., Ltd. } 32 to 38, Southwark St.,  
 S.E.  
 Worthington Simpson, } Queen's House, Kings-  
 Ltd. ... } way, W.C. 2

**Pumps (Turbine).**

Allen W. H. Sons & Co., Ltd. Bedford  
 Boving & Co., Ltd. ... } 56, Kingsway, W.C. 2  
 British Electric Plant Co., }  
 Ltd. ... } 66, Carrick St., Glasgow  
 Drysdale & Co., Ltd. ... } Bon-Accord Wks., Yorker,  
 Glasgow, W.  
 Metropolitan-Vickers Elec- } Trafford Park, Man-  
 trical Co., Ltd. ... } chester  
 Pulsometer Engineering } Nine Elms Ironworks,  
 Co., Ltd. ... } Reading  
 Rees Roturbo Manufac- }  
 turing Company, Ltd. ... } Wolverhampton, Eng.

**Pumps (Vacuum).**

Blair, Campbell & McLean, } Woodville St., Govan,  
 Ltd. ... } Glasgow  
 Broom & Wade, Ltd. ... } High Wycombe  
 Burckhardt Engineering }  
 Works ... } 26, Victoria St., S.W. 1  
 Consolidated Pneumatic } Egyptian House, Picca-  
 Tool Co., Ltd. ... } dilly, W. 1  
 Evans Joseph, & Sons (Wol- }  
 verhampton), Ltd. ... } Wolverhampton

**Pumps (Vacuum)—Continued.**

|                                     |                        |
|-------------------------------------|------------------------|
| Mirrlees Watson Co., Ltd.           | Scotland St., Glasgow  |
| Reavell & Co., Ltd.                 | Ipswich                |
| Siebe, Gorman & Co., Ltd.           | Neptune Works, S.E.    |
| Wheeler Condenser & Engineering Co. | Carteret, N.J., U.S.A. |

**Punching and Shearing Machines.**

|                                         |                                      |
|-----------------------------------------|--------------------------------------|
| Bennie James, & Sons                    | Govan, Glasgow                       |
| Berry F., & Sons                        | Calderdale Ironworks, Sowerby Bridge |
| Berry Henry, & Co., Ltd.                | Croydon Works, Leeds                 |
| Cameron John, Ltd.                      | Oldfield Rd. Ironworks, Salford      |
| Craig & Donald, Ltd.                    | Johnstone, nr. Glasgow               |
| Davy Brothers, Ltd.                     | Sheffield                            |
| Farrar Boiler Works, Ltd.               | Lincoln                              |
| Hands John, & Sons, Ltd.                | Cardigan Wks., Birmingham            |
| Hordern & Mason                         | St. Mary's, Birmingham               |
| Leeds Engineering & Hydraulic Co., Ltd. | Rodley, near Leeds                   |
| Macrez A. R.                            | 34, Rue de Londres, Paris (9e)       |
| Musgrave Bros.                          | Leeds                                |
| Pleck Foundry Co., Ltd.                 | Walsall                              |
| Pollock, Macnab & Highgate              | Shettleston, Glasgow                 |
| Rice & Co. (Leeds), Ltd.                | Bland Rd., Leeds                     |
| Ryerson Joseph T., & Son                | Chicago, Ill., U.S.A.                |
| Smith Hugh, & Co., Ltd.                 | Possil Works, Glasgow                |
| Tangyes Limited                         | Birmingham                           |
| Walber W. A., & Co.                     | 38 Victoria St., S.W.                |

**Pyrometers and Thermometers.**

|                                       |                                                 |
|---------------------------------------|-------------------------------------------------|
| Alexander George H.                   | Coleshill St., Birmingham                       |
| Budenberg Gauge Co., Ltd.             | Broadheath, nr. Manchester                      |
| Cambridge & Paul Instrument Co., Ltd. | Cambridge                                       |
| Coats Machine Tool Co., Ltd.          | 14, Palmer St., S.W. 1                          |
| Engineering Supplies, Ltd.            | Suffolk House, 5, Laurence Pountney Hill, E.C.4 |
| Foster Instrument Co.                 | Letchworth, Herts                               |
| Horne Engineering Co.                 | St. Peters Lane, Glasgow                        |
| Incandescent Heat Co., Ltd.           | British Mills, Smethwick, Birmingham            |
| Negretti & Zambra                     | 38, Holborn Viaduct, E.C.                       |
| Shore Instrument & Mfg. Co.           | New York                                        |
| Siemens Bros., & Co., Ltd.            | Woolwich, S.E. 18                               |
| Sugden T., Ltd.                       | 180, Fleet St., E.C.                            |
| Uehling Instrument Co.                | 2,020 Empire Building, New York, U.S.A.         |

**Rail Benders.**

|                          |                         |
|--------------------------|-------------------------|
| Berry Henry, & Co., Ltd. | Hunslet, Leeds          |
| Gibbins R. C., & Co.     | Berkley St., Birmingham |
| Holt & Willetts          | Cradley Heath           |
| Tangyes Limited          | Birmingham              |
| Youngs                   | Birmingham              |

**Rail Lifters.**

|                      |                              |
|----------------------|------------------------------|
| Gibbins R. C., & Co. | Berkley St., Birmingham      |
| Youngs               | Ryland St. Works, Birmingham |

**Rails (Steel and Iron).—(See also Permanent Way, and Switches & Crossings.)**

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Cammell Laird & Co., Ltd.         | Sheffield                          |
| Colville David, & Sons, Ltd.      | Motherwell, nr. Glasgow            |
| Partington Steel & Iron Co., Ltd. | Irlam, Manchester                  |
| Steel Co. of Scotland, Ltd.       | 23, Royal Exchange Square, Glasgow |
| White Rd., & Sons                 | Widnes, Lancs                      |

**Railway and Contractors' Plant.**

|                                     |                                    |
|-------------------------------------|------------------------------------|
| Alley & MacLellan, Ltd.             | Sentinel Works, Glasgow            |
| Bagnall W. G., Ltd.                 | Castle Engine Works, Manchester    |
| Beyer, Peacock & Co., Ltd.          | Manchester [Stafford]              |
| Birch John, & Co., Ltd.             | 2, London Wall Bldg., E.C.         |
| Brown John & Co., Ltd.              | Sheffield                          |
| Browning Co.                        | Cleveland, Ohio, U.S.A.            |
| Bucyrus Co.                         | 13, Victoria St., S.W.             |
| Consolidated Construction Co., Ltd. | 9, Cloak Lane, Cannon St., E.C. 4  |
| Firth Thos., & Sons, Ltd.           | Norfolk Works, Sheffield           |
| Fowler J., & Co. (Leeds), Ltd.      | Leeds                              |
| Gibbins R. C., & Co.                | Berkley St., Birmingham            |
| Hadfields Limited                   | Hecla Works, Sheffield             |
| Heenan & Froude, Ltd.               | Worcester                          |
| Hurst, Nelson & Co., Ltd.           | Motherwell, N.B.                   |
| Kilmarnock Engineering Co., Ltd.    | 10, Coleman St., E.C.2             |
| Kloos F., & Sons                    | 20, Copthall Avenue, E.C.2         |
| Leeds Forge Co., Ltd.               | Leeds                              |
| Lidgerwood Ltd.                     | Friar's House, New Broad St., E.C. |
| McLachlan & Co., Ltd.               | Darlington                         |
| MacLellan P. & W., Ltd.             | Clutha Works, Glasgow              |
| Ransomes & Rapier, Ltd.             | Ipswich                            |
| Stone J. B., & Co., Ltd.            | 135, Finsbury Pavement, [E.C.]     |
| Summerson Thomas, & Sons, Ltd.      | Darlington                         |
| Vickers, Ltd.                       | Sheffield                          |
| Western Wheeled Scraper Co.         | Aurora, Illinois, U.S.A.           |
| Wonham, Bates & Goode, Inc.         | 3, London Wall Buildings, E.C.     |
| Zoethout J., Jzn.                   | The Hague, Holland                 |

**Railway Rolling Stock.—(See Carriage, Wagon and Engine—Locomotive.)****Railway Signals.**

|                                                         |                                  |
|---------------------------------------------------------|----------------------------------|
| McKenzie & Holland, Ltd.                                | 82, York Rd., King's Cross, N. 1 |
| McKenzie, Holland & Westinghouse Power Signal Co., Ltd. | 82, York Rd., King's Cross, N. 1 |
| Siemens Bros., & Co., Ltd.                              | Woolwich, S.E. 18                |

**Railway Wheels.—(See Wheels—Railway.)****Railways (Light and Portable).**

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Armstrong Sir W. G.,           | 8, Great George St., Whitworth & Co., Ltd. |
| Bagnall W. G., Ltd.            | S.W. 1                                     |
| Birch John, & Co., Ltd.        | Stafford [E.C.]                            |
| Fowler J., & Co. (Leeds), Ltd. | 2, London Wall Buildings, Leeds            |
| Hurst, Nelson & Co., Ltd.      | Motherwell, N.B.                           |
| McLachlan & Co., Ltd.          | Darlington                                 |
| Motor Rail & Tram Car Co.      | Bedford                                    |

**Railways (Rack).**

|                           |           |
|---------------------------|-----------|
| Cammell Laird & Co., Ltd. | Sheffield |
|---------------------------|-----------|

**Rawhide Wheels.—(See Wheels—Rawhide.)**

**Reducing Valves.**—(See Valves—Reducing.)**Refractory Materials.**

Bradley & Foster, Ltd. .. 105, Colmore Row, Birmingham

**Refrigerating Machinery.**—(See also Ice-Making Machines.)

American Steel Export Co. Woolworth Building, New York, U.S.A.  
 Brotherhood, Peter, Ltd. Peterborough  
 Hall J. & E., Ltd. .. Dartford Ironworks, Kent  
 Haslam Foundry & Engineering Co., Ltd. .. Union Foundry, Derby  
 Liverpool Refrigeration Co., Ltd. .. Colonial House, Liverpool  
 Pontifex & Wood, Ltd. .. pool  
 Pulsometer Engineering Co., Ltd. .. Union Foundry, Derby  
 .. Nine Elms Ironworks, Reading  
 Seagers Ltd. .. Dartford  
 Sterne L. & Co., Ltd. .. Crown Ironworks, Glasgow  
 West H. J. & Co., Ltd. .. 72-74, Gray's Inn Rd., W.C. 1

**Reversing Gears (Motor Boat).**

Thornycroft J.I. & Co., Ltd. 10, Grosvenor Place, S.W. 1

**Rice-Dressing Machinery.**

Douglas & Grant .. Kirkcaldy, N.B.

**Riveting Machines.**

Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks, Bridgeton, Glasgow  
 Berry Henry, & Co., Ltd. Croydon Works, Leeds  
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W. 1  
 Drysdale & Co., Ltd. .. Bon Accord Wks., Yoker, Glasgow, W.  
 Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., Westminster, S.W.  
 Hollings & Guest, Ltd. .. Thimble Mill Lane, Birmingham  
 Leeds Engineering & Hydraulic Co., Ltd. .. Rodley, nr. Leeds  
 Musgrave Bros. .. Leeds  
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds  
 Selson Engineering Co., Ltd. 85, Qn. Victoria St., E.C.  
 Shuster, F. B., Co. .. Newhaven, Conn., U.S.A.  
 Smith Hugh, & Co., Ltd. Possil Works, Glasgow

**Rivet Heaters.**

American Car & Foundry Co. .. 165, Broadway, N.Y., U.S.A.

**Rivets.**—(See Bolts, Rivets, &c.)**Road Rollers (Steam, &c.).**

Agricultural & General Engineers, Ltd. .. Central House, Kingsway, W.C. 2  
 Barford & Perkins, Ltd. Peterborough  
 Fowler J. & Co. (Leeds), Ltd. Leeds  
 Marshall, Sons & Co., Ltd. Gainsborough  
 Ruston & Hornsby, Ltd. .. Sheaf Ironworks, Lincoln

**Rockbreaker (Mechanical, under Water).**

Lobnitz & Co., Ltd. .. Renfrew, Scotland

**Rock Drills.**—(See also Boring Tools & Machinery, and Well Engineers.)

Bristol Pneumatic Tools, Ltd. .. 140, Victoria St., Bristol  
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W. 1  
 Ingersoll-Rand Co. .. 163, Queen Victoria St., E.C.

**Roller Bearings.**—(See Bearings—Ball & Roller.)**Rolling Mill Machinery.**—(See Iron and Steel Works, Plant for.)**Rolling Mills (for Metals).**—(See Iron and Steel Works, Plant for.)**Rolls (Chilled and Grain).**

Bayliss, Jones & Bayliss, Ltd. .. Wolverhampton

**Roofing Material.**

Anderson D. & Son, Ltd. Lagan Works, Belfast  
 Anderson-Grice Co., Ltd. Carnoustie, Scotland  
 British Everite & Asbestite Works, Ltd. .. 49, Peter St., Manchester  
 British Fibrocement Works Erith, Kent  
 Graves & Co., Ltd. .. 14, Water St., Liverpool

**Roofs (Iron, Steel and Zinc).**—(See Structural Engineering.)**Rope Tramways.**

Aerial Ropeway Transporters, Ltd. .. Craven House, Kingsway, W.C. 2  
 British Ropeway Engineering Co., Ltd. .. 7, Mincing Lane, E.C. 3  
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.  
 Henderson John M. & Co. Aberdeen, Scotland  
 Lidgerwood Ltd. .. Friars House, New Broad St., E.C.  
 White Rd., & Sons .. Widnes, Lancs.

**Ropes (Driving).**

Hart Thomas, Ltd. .. Blackburn, England  
 Kenyon Wm., & Sons, Ltd. Dukinfield, Manchester

**Ropes (Wire).**—(See Wire & Wire Rope Makers.)**Rubber Machinery**

Entwistle & Gass, Ltd. .. Bolton

**Runways.**

Higginbottom & Mannock, Ltd. .. Crown Ironworks, West Gorton, Manchester  
 Holt & Willetts .. Lion Wks., Cradley Heath  
 Morris Herbert, Ltd. .. Loughborough, England  
 Vaughan Crane Co., Ltd. .. Openshaw, Manchester

**Rust Preventive.**

Graphite Products, Ltd. .. 218-220, Queen's Rd., Battersea, S.W. 8  
 Hill W. W., Son & Wallace, Ltd. .. Broughton, Manchester  
 Ironite, Co., Ltd. .. 11, Old Queen St., Westminster, S.W. 1  
 Sozol Limited .. 20, Copthall Avenue, E.C. 2

**Sales.****Sand Blast Machines.**

Tilghman's Patent Sand } Broadheath, near Man-  
Blast Co., Ltd. . . } chester

**Sand (Moulding).****Sanitary Appliances.**

Glenfield & Kennedy, Ltd. Kilmarnock, N.B.  
Hughes & Lancaster . . 47, Victoria St., S.W.

**Saw Makers.**

Allen Edgar, & Co., Ltd. . . Sheffield  
Apex Steel Co., Ltd. . . Sheffield  
Atkins E. C., & Co., Inc. . . Indianapolis, Indiana,  
U.S.A.  
Baynes Charles, Ltd. . . Knuzden Brook,  
Blackburn  
Beardshaw J., & Son, Ltd. Sheffield  
Buck & Hickman, Ltd. . . 2 & 4, Whitechapel Rd.,  
E. 1  
Chambers, Scott & Co., Ltd. Motherwell  
Davy Brothers, Ltd. . . Sheffield  
Firth Thos., & Sons, Ltd. . . Norfolk Works, Sheffield  
Hampton & Beebe, Ltd. . . Wednesbury, South  
Staffs.  
Pickles John, & Son . . Hebden Bridge, Yorks

**Saw Mill Machinery.—(See Wood-Working Machinery.)****Scientific Instruments.—(See Boiler Mountings, Drawing Instruments, and Pyrometers & Thermometers.)****Scrap Metal.**

Adams & Benson, Ltd. . . Albion, West Bromwich  
Barnard H. B., & Sons . . Glyn St., Vauxhall,  
S.E. 11  
Bradley & Foster, Ltd. . . 105, Colmore Row, Bir-  
mingham  
Buyers of Scrap Metal, Ltd. Glyn St., S.E. 11  
Dunkerley C. C. & Co., Ltd. Store St., Manchester  
Harris F. W. (Birming-  
ham), Ltd. . . . 132, Hurst St., Birmingham

**Screens.****Screw Propellers and Propeller Blades.**

Billington & Newton, Ltd. Longport, Stoke-on-Trent  
Brown John, & Co., Ltd. . . Sheffield  
Firth Thos., & Sons, Ltd. . . Norfolk Works, Sheffield  
Friedenthal, Ltd. . . River Eng. Wks., Preston  
Hadfields Limited . . . Hecla Works, Sheffield  
North-Eastern Marine En- } Northumberland Works,  
gineering Co., Ltd. . . } Wallsend-on-Tyne  
Ross & Duncan . . . Glasgow  
Steven & Struthers . . . Kelvinhaugh, Glasgow  
Thornycroft J. I., & Co., Ltd. Southampton  
Vickers Limited . . . Sheffield

**Screwing Machines.**

Armstrong Mfg. Co. . . 338, Knowlton St. Bridge-  
port, Conn., U.S.A.  
Armstrong Sir W. G., Whit-  
worth & Co., Ltd. . . Openshaw, Manchester  
Chatwin Thos., Ltd. . . Gt. Tindal St., Birming-  
ham  
Daniell S. A., Ltd. . . Edward St., Parade, Bir-  
mingham  
Heap Joshua, & Co., Ltd. . . Ashton-under-Lyne

**Screwing Machines—Continued.**

Lunts, Ltd. . . . Halford St., Leicester  
Maiden & Co., Ltd. . . Hyde, Cheshire  
Nathan, H. L. . . . 16, Regent Place, Bir-  
mingham  
Niles-Bement Pond Co. . . Hamilton, Ohio, U.S.A.  
Platt Samuel, Ltd. . . Wednesbury  
Shanks Thomas, & Co. . . Johnstone  
Tangyes Limited . . . Birmingham  
Wharton H., Ltd. . . Station Rd., Reddish,  
Stockport  
Winn Charles, & Co. . . Granville Place, Bir-  
mingham

**Screws, &c.**

Stokes A., & Co. . . Green St., Birmingham

**Search Lights.**

Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne

**Second-hand Tools, &c.**

Hurst, Nelson & Co., Ltd. . . Motherwell, N.B.  
Jennings Edward J. . . Westwalls, Newcastle-on-  
Tyne  
McNab John . . . Mary St., Hyde  
Pearson S., & Son (Con-  
tracting Department),  
Ltd. . . . 10, Victoria St., S.W. 1  
Riddle John H., Ltd. . . 40, St. Enoch Square,  
Glasgow  
Wake John F. . . . Darlington  
Ward Thos., W., Ltd. . . Albion Works, Sheffield

**Separators, Magnets, &c.**

Consolidated Pneumatic } Egyptian House, 170,  
Tool Co., Ltd. . . } Piccadilly W.  
De Laval Steam Turbine } 150, Southampton Row,  
Co. . . . . } W.C.  
Igranic Electric Co., Ltd. . . 147, Qn. Victoria St., E.C.  
Rapid Magnetizing Machine } 52, Lombard St., Bir-  
Co., Ltd. . . . } mingham  
Westminster Tool & Elec- } 116, Putney Bridge Rd.,  
tric Co. . . . . } S.W. 15

**Shafting and Shaft Fittings.—(See also Clutches—Friction, Couplings—Shaft, and Plummer Blocks & Bearings.)**

Armstrong Sir W. G., } 8, Great George St.,  
Whitworth & Co., Ltd. } S.W. 1  
Barry, Henry & Cook, Ltd. } Aberdeen  
Beardmore W., & Co., Ltd. } Glasgow  
Bessemer Henry, & Co., Ltd. } Sheffield  
Bodley Bros. & Co. . . . Old Quay Foundry, Exeter  
Brown John, & Co., Ltd. . . Sheffield  
Columbia Steel & Engineer- } Bank Chambers, 329,  
ing Co. Ltd. . . . } High Holborn, W.C. 1  
Craven Brothers (Manches- } Vauxhall Wks., Reddish,  
ter), Ltd. . . . } Stockport  
Crofts (Engineers), Ltd. . . Empire Works, Bradford  
Douglas, Lawson & Co. . . Birstall, near Leeds  
Electro-Mechanical Brake  
Co., Ltd. . . . . West Bromwich  
Entwistle & Gass, Ltd. . . Bolton  
Escher, Wyss & Co. . . 20, Grosvenor Gardens,  
S.W. 1  
Fife Forge Co., Ltd. . . Kirkcaldy, Scotland  
Finney George, & Co. . . Berkley St., Birmingham

**Shafting and Shaft Fittings—Continued.**

|                                             |                                       |
|---------------------------------------------|---------------------------------------|
| Firth Thos. & Sons, Ltd.                    | Norfolk Works, Sheffield              |
| Govan Shafting & Engineering Co., Ltd.      | Govan, Glasgow                        |
| Hadfields Limited                           | Hedra Works, Sheffield                |
| Hampton & Beebe, Ltd.                       | Wednesbury, South Staffs.             |
| Hawthorn R. & W., Leslie & Co., Ltd.        | Newcastle-on-Tyne                     |
| Hudswell, Clarke & Co., Ltd.                | Leeds                                 |
| Jardine John                                | Deering St., Nottingham.              |
| Kirkstall Forge, Ltd.                       | Leeds                                 |
| Kynoch, Ltd.                                | Witton, Birmingham                    |
| Newton, Bean & Mitchell                     | Dudley Hill, Bradford                 |
| Platt Samuel, Ltd.                          | Wednesbury                            |
| Power Plant Co., Ltd.                       | West Drayton, Middlesex               |
| Richards Geo., & Co., Ltd.                  | Broadheath, nr. Manchester            |
| Smith & Grace Screw Boss Pulley Co., Ltd.   | Thrapston                             |
| Taylor & Challen, Ltd.                      | Birmingham                            |
| Trier Bros., Ltd.                           | 36, Victoria St., Westminster, S.W. 1 |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | 48, West Gorton, Manchester           |
| Vickers Limited                             | Sheffield                             |
| Wigglesworth F., & Co., Ltd.                | Shipley, near Bradford                |
| Yates & Thom, Ltd.                          | Canal Works, Blackburn                |

**Shearing Machines.—(See Punching & Shearing Machines.)****Sheerlegs.**

|                          |             |
|--------------------------|-------------|
| Day, Summers & Co., Ltd. | Southampton |
|--------------------------|-------------|

**Sheet Metal Work, and Machinery.**

|                                          |                                  |
|------------------------------------------|----------------------------------|
| Boulton & Paul, Ltd.                     | Norwich                          |
| Bradley & Co., Ltd.                      | Bilston                          |
| Bradne T. F., & Co., Ltd.                | Hunslet, Leeds                   |
| Kynoch, Ltd.                             | Witton, Birmingham               |
| Standard Piston Ring and Engineering Co. | Premier Wks., Don Rd., Sheffield |
| Taylor & Challen, Ltd.                   | Birmingham                       |

**Sheet-Metal Work (Welded).**

|                                         |                                               |
|-----------------------------------------|-----------------------------------------------|
| Ash Joseph, & Son                       | Rea St. South, Birmingham                     |
| Clarke George & Sons (Hull), Ltd.       | Waterhouse Lane, Hull                         |
| Thompson Bros. (Bilston), Ltd.          | Bradley Engineering and Boiler Works, Bilston |
| Wolverhampton Corrugated Iron Co., Ltd. | Ellesmere Port, nr. Birkenhead                |

**Shipbuilders.—(See also Barges & Lighters, Dredgers—Suction, Motor Boats, and Torpedo Boats.)**

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Alma Shipbuilding Co., Ltd.                 | Troon, N.B.                   |
| Armstrong, Sir W. G., Whitworth & Co., Ltd. | 8, Great George St., S.W. 1   |
| Beardmore W., & Co., Ltd.                   | Glasgow                       |
| Brown John, & Co., Ltd.                     | Sheffield                     |
| Burmeister & Wain, Ltd.                     | Copenhagen, Denmark           |
| Cammell Laird & Co., Ltd.                   | Sheffield                     |
| Campbell & Calderwood                       | Soho Works, Paisley, Scotland |
| Chalmers Wm., & Co., Ltd.                   | Rutherglen, Scotland          |
| Day, Summers & Co., Ltd.                    | Southampton                   |
| Dublin Dockyard Co., Ltd.                   | North Wall, Dublin            |

**Shipbuilders—Continued.**

|                                          |                                              |
|------------------------------------------|----------------------------------------------|
| Ferguson Brothers (Port Glasgow), Ltd.   | Newark Works, Port Glasgow                   |
| Fleming & Ferguson, Ltd.                 | Paisley, N.B.                                |
| Hawthorn R. & W., Leslie & Co., Ltd.     | Newcastle-on-Tyne                            |
| Lobnitz & Co., Ltd.                      | Renfrew, Scotland                            |
| McClintic-Marshall Products Co.          | 50, Church St., New York, U.S.A.             |
| McKie & Baxter                           | Govan, Glasgow                               |
| Newcastle Shipbuilding Co., Ltd.         | Hebburn-on-Tyne                              |
| Normand Augustin                         | 67, Rue du Ferrey, Le Havre, France          |
| Ross & Duncan                            | Glasgow                                      |
| Simons W., & Co., Ltd.                   | Renfrew, N.B.                                |
| Smit L., & Zoons                         | Kinderdijk, Holland                          |
| Summers & Payne, Ltd.                    | Southampton                                  |
| Sun Shipbuilding Co.                     | 1428 So. Penn Sq., Philadelphia, Pa., U.S.A. |
| Thornycroft J.I., & Co., Ltd.            | 10, Grosvenor Place, S.W. 1                  |
| Vickers Limited                          | Barrow-in-Furness                            |
| Wallsend Slipway & Engineering Co., Ltd. | Wallsend                                     |
| White J. Samuel, & Co., Ltd.             | East Cowes, Isle of Wight                    |
| Yarrow & Co., Ltd.                       | Glasgow                                      |

**Shipping and Transport Agents.**

|                                |                               |
|--------------------------------|-------------------------------|
| Leopold Walford (London), Ltd. | 29, Great St. Helens, E.C.    |
| McGregor, Gow & Holland, Ltd.  | 1 & 4, Fenchurch Ave., E.C. 3 |
| Union Transit Co.              | 381, Argyle St., Glasgow      |

**Shovels and Spades.—(See Picks, &c.)****Sirens and Whistles.**

|                      |                                        |
|----------------------|----------------------------------------|
| France & Morgan      | Whitefield Brass Works, Govan, Glasgow |
| Lunken Company, Ltd. | 35, Great Dover St., E.C.              |

**Sites (Industrial).**

|                           |                             |
|---------------------------|-----------------------------|
| Great Western Railway Co. | Paddington Station, W. 2    |
| North Eastern Railway Co. | The Commercial Agency, York |
| Slough Trading Co., Ltd.  | Slough, Bucks.              |

**Sleepers (Railway).—(See Permanent Way.)****Slotting and Shaping Machines.—(See Machine Tools.)****Sluices.**

|                               |                  |
|-------------------------------|------------------|
| Blakeborough J., & Sons, Ltd. | Brighouse, Yorks |
| Glenfield & Kennedy, Ltd.     | Kilmarnock, N.B. |
| Ransomes & Rapier, Ltd.       | Ipswich          |

**Smiths' Fires.**

|                        |            |
|------------------------|------------|
| Alldays & Onions, Ltd. | Birmingham |
|------------------------|------------|

**Smoke Helmets, &c.**

|                           |                                            |
|---------------------------|--------------------------------------------|
| Siebs, Gorman & Co., Ltd. | Neptune Wks., Westminster Bridge Rd., S.E. |
|---------------------------|--------------------------------------------|

**Solders.**

|                     |                                         |
|---------------------|-----------------------------------------|
| Fry's Metal Foundry | 25-42, Holland St., Blackfriars, S.E. 1 |
| McKechie Brothers   | Rotton Park St., Birmingham             |

**Solenoids (Brake).**

Ellison, Evans, & Jackson, } 13, Cross St., Finsbury,  
 Ltd. . . . . } E.C. 2

**Sparking Plugs.—(See Igniters—Electric.)****Speed Indicators and Counters.**

Bailey Sir W. H., & Co., Albion Wks., Salford,  
 Ltd. . . . . Manchester  
 Dobbie McInnes & Clyde, } 57, Bothwell St., Glas-  
 Ltd. . . . . } row

**Speed Reducing Gears.—(See Gearing—Speed Reducing.)****Spikes & Nails.**

Clyde Nail Co., Ltd. . . . . Newton, nr. Glasgow  
 Russell John G. . . . . Wishaw, Scotland

**Springs.**

Brown John, & Co., Ltd. . . . . Sheffield  
 Cockburns Limited . . . . . Clydesdale Wks., Card'n'd,  
 near Glasgow

Salter, Geo., & Co., Ltd. . . . . West Bromwich  
 Smith Bros. & Hill, Ltd. . . . . Albert Spring Works,  
 West Bromwich

Sterne L., & Co., Ltd. . . . . Crown Ironwks., Glasgow  
 Terry Herbert, & Sons, Ltd. . . . . Redditch  
 Turtton Thos., & Sons, Ltd. . . . . Sheaf Works, Sheffield

Vermot, Ch., Valère, Mabilie  
 and R. Pelgrims, Ltd. . . . . 83, Victoria St., S.W. 1  
 Wobham, Bates, & Goode, } 3, London Wall Build-  
 Inc. . . . . } ings, E.C.

**Springs and Coils (Machinery for Making).**

Sleeper & Hartley (Inc.) . . . . . Worcester, Mass., U.S.A.

**Stamping Machinery.**

Berry Henry, & Co., Ltd. . . . . Hunslet, Leeds  
 Hands John, & Sons, Ltd. . . . . Birmingham  
 Kynoch, Ltd. . . . . Witton, Birmingham  
 Macrez, A. R. . . . . 34, Rue de Londres,  
 Paris (9e)

Massey B. & S., Ltd. . . . . Manchester  
 Platt Samuel, Ltd. . . . . Wednesbury  
 Taylor & Challen, Ltd. . . . . Birmingham

**Stampings (Aluminium).****Stampings (Brass, Bronze, Copper, &c.).**

Bradley & Co., Ltd. . . . . Bilston  
 Brookes & Adams . . . . . 250-252, Barr St., Hock-  
 ley, Birmingham

Delta Metal Co., Ltd. . . . . East Greenwich, S.B.  
 Fisher & Ludlow, Ltd. . . . . Rea St., Birmingham  
 McKechnie Bros., Ltd. . . . . Rotton Park St., Bir-  
 mingham

Neal Geo. H., & Co., Ltd. . . . . 11, Southampton Row,  
 W.C. 1

Scottish Stamping & En-  
 gineering Co., Ltd. . . . . Ayr, Scotland  
 Showell E., & Sons, Ltd. . . . . Stirchley, Birmingham  
 Smith E. J., & Co. . . . . Hay Mills, Birmingham

**Stampings (Iron and Steel).**

Armstrong Sir W. G., } 8, Great George St.,  
 Whitworth & Co., Ltd. } S.W. 1

Armstrong, Stevens & Son,  
 Ltd. . . . . Whittall St., Birmingham  
 Barr, Thomson & Co., Ltd. . . . . Kilmarnock, Scotland  
 Bradley & Co., Ltd. . . . . Bilston

**Stampings (Iron and Steel)—Continued.**

Braine T. F., & Co., Ltd. . . . . Hunslet, Leeds  
 Brett's Stamping Co., Ltd. . . . . Harnall Lane, Coventry  
 Clayton Wagons, Ltd. . . . . Lincoln  
 Fisher & Ludlow, Ltd. . . . . Rea St., Birmingham

Fowler John, & Co. (Leeds),  
 Ltd. . . . . Leeds

Gartsherrie Engineering &  
 Forge Co. . . . . 50, Wellington Street,  
 Glasgow

Head, Wrightson & Co., Ltd. . . . . Teesdale Ironwks, Thorn-  
 aby-on-Tees

Heavy Stampings, Ltd. . . . . Middlesbrough  
 Jessop, Wm., & Sons, Ltd. . . . . Brightside Works, Shef-  
 field

McNeil Charles, Ltd. . . . . Glasgow  
 Sankey Joseph, & Sons, Ltd. . . . . Wellington, Shropshire

Scottish Stamping & En-  
 gineering Co., Ltd. . . . . Ayr, Scotland  
 Thompson Bros. (Bilston),  
 Ltd. . . . . Bradley Eng. & Boiler  
 Vickers, Ltd. . . . . Works, Bilston  
 Sheffield

**Steam Cultivating Machines.**

Aveling & Porter, Ltd. . . . . Rochester  
 Fowler John, & Co. (Leeds),  
 Ltd. . . . . Leeds

Marshall, Sons & Co., Ltd. . . . . Gainsborough

**Steam Hammers.—(See also Hammers—Power.)**

Brett's Patent Lifter Co., Ltd. . . . . Coventry  
 Cochrane, John (Barrhead),  
 Ltd. . . . . Barrhead, nr. Glasgow

Davis & Primrose, Ltd. . . . . Leith, Edinburgh  
 Davy Brothers, Ltd. . . . . Sheffield

Dempster, Moore & Co., Ltd. . . . . 49, Robertson St., Glas-  
 Massey B. & S., Ltd. . . . . Openshaw, Manchester  
 Pollock, Macnab & Highgate  
 Shettleston, Glasgow

**Steam Pipes.—(See Pipes—Wrought Iron and Steel, and Tubes—Brass, Iron, &c.)****Steam Rollers.—(See Road Rollers.)****Steam Separators.**

Alley & Macdellan, Ltd. . . . . Sentinel Works, Glasgow  
 Hopkinson J., & Co., Ltd. . . . . Huddersfield

North-Eastern Marine En-  
 gineering Co., Ltd. . . . . Northumberland Works,  
 Wallsend-on-Tyne

Princes & Co. . . . . Sheffield  
 Worthington-Simpson, Ltd. . . . . Queen's House, Kings-  
 way, W.C.

**Steam Traps.**

Alley & Macdellan, Ltd. . . . . Sentinel Works, Glasgow  
 British Steam Specialties,  
 Ltd. . . . . Bedford St., Leloster

Clyne Engineering Co.,  
 Ltd. . . . . 94, Market St., Manches-  
 ter

Cockburns Limited . . . . . Cardonald, near Glasgow  
 Edmeston A., & Sons . . . . . Patricroft, nr. Manchester.

Hobdell, Way & Co., Ltd. . . . . 124-5, Minories, B  
 Hopkinson J., & Co., Ltd. . . . . Huddersfield

Lancaster & Tonge, Ltd. . . . . Pendleton, Manchester  
 Ohio Body & Blower Co. . . . . Cleveland, Ohio, U.S.A.

Premier Cooler & Engineer-  
 ing Co., Ltd. . . . . Station Works, Shalford,  
 nr. Guildford, Surrey

Royles Limited . . . . . Irlam, near Manchester  
 Steven & Struthers . . . . . Kelvinhaugh, Glasgow  
 Turballe Alex., & Co., Ltd. . . . . Bishopbriggs, Glasgow

United Brassfounders &  
 Engineers, Ltd. . . . . Cornbrook, Manchester

**Steam Turbines and Fittings.**

|                                |                           |
|--------------------------------|---------------------------|
| Adamson, Daniel, & Co., Ltd.   | Dukinfield                |
| Allen W.H. Sons, & Co., Ltd.   | Bedford                   |
| Armstrong, Sir W. G.,          | 8, Great George Street,   |
| Whitworth & Co., Ltd.          | S.W. 1                    |
| Belliss & Morcom, Ltd.         | Birmingham                |
| British Thomson-Houston        |                           |
| Co., Ltd.                      | Rugby                     |
| Brotherhood, Peter, Ltd.       | Peterborough              |
| Brush Electrical Engineer-     | Loughborough, Leices-     |
| ing Co., Ltd.                  | tershire                  |
| Cockburns Limited              | Cardonald, nr. Glasgow    |
| De Laval Steam Turbine         | 150, Southampton Row,     |
| Co.                            | W.C.                      |
| English Electric Co., Ltd.     | Queen's House, Kings-     |
|                                | way, W.C. 2               |
| Escher, Wyss & Co.             | 20, Grosvenor Gardens,    |
|                                | S.W. 1                    |
| Fraser & Chalmers En-          | Erith, Kent               |
| gineering Works                |                           |
| Howden James, & Co.            | Scotland St., Glasgow     |
| McNeill Charles, Ltd.          | Glasgow                   |
| Metropolitan-Vickers Elec-     | Traford Park, Man-        |
| trical Co., Ltd.               | chester                   |
| Parsons C. A., & Co.           | Newcastle-on-Tyne         |
| Richardsons, Westgarth &       |                           |
| Co., Ltd.                      | Hartlepool                |
| Terry Steam Turbine Co.        | Hatford, Conn., U.S.A.    |
| Thornycroft, J.L., & Co., Ltd. | Southampton               |
| Vickers Limited                | Sheffield                 |
| Wallend Slipway & Engi-        | Wallend                   |
| neering Co., Ltd.              |                           |
| White J. Samuel, & Co., Ltd.   | East Cowes, Isle of Wight |

**Steel Bars.—(See Bars—Bright Steel.)****Steel and Iron Makers.**

|                                |                             |
|--------------------------------|-----------------------------|
| Allen Edgar, & Co., Ltd.       | Sheffield                   |
| American Steel Export Co.      | Building,                   |
|                                | New York, U.S.A.            |
| Beardmore Wm., & Co., Ltd.     | Glasgow                     |
| Bessemer Henry, & Co., Ltd.    | Sheffield                   |
| Bradley & Foster, Ltd.         | 105, Colmore Row, Bir-      |
|                                | mingham                     |
| Briton Ferry Steel Co., Ltd.   | Briton Ferry, South         |
|                                | Wales                       |
| Brown John, & Co., Ltd.        | Sheffield                   |
| Cammell Laird & Co., Ltd.      | Sheffield                   |
| Carbon Steel Co.               | Pittsburgh, Penna.,         |
|                                | U.S.A.                      |
| Colville David, & Sons, Ltd.   | Motherwell, nr. Glasgow     |
| Dunlop & Ranken, Ltd.          | 47, Water Lane, Leeds       |
| Fairley James, & Sons          | Shadwell St., Birmingham    |
| Firth Thos., & Sons, Ltd.      | Norfolk Works, Sheffield    |
| Gilbertson W., & Co., Ltd.     | Pontardawe, near            |
|                                | Swansea                     |
| Glasgow Iron & Steel Co., Ltd. | Wishaw, N.B.                |
| Hadfields Limited              | Hecla Works, Sheffield      |
| Howell & Co., Ltd.             | Brook Steel Wks., Sheffield |
| Jessop, Wm., & Sons, Ltd.      | Brightside Works,           |
|                                | Sheffield                   |
| Lanarkshire Steel Co., Ltd.    | Motherwell                  |
| Lee Arthur, & Sons, Ltd.       | Sheffield                   |
| Leeds Forge Co., Ltd.          | Leeds                       |
| Marsden H. R., Ltd.            | Soho Foundry, Leeds         |
| Newcastle Alloy Co., Ltd.      | Newcastle-on-Tyne           |
| Osborn Samuel, & Co., Ltd.     | Clyde Steel Wks., Shef-     |
|                                | field                       |
| Partington Steel & Iron Co.,   |                             |
| Ltd.                           | Irlam, Manchester           |

**Steel and Iron Makers—Continued.**

|                             |                          |
|-----------------------------|--------------------------|
| Pittsburgh Iron & Steel     | Pittsburgh, Penna.,      |
| Foundries Co.               | U.S.A.                   |
| Ramshay & Marshall, Ltd.    | Birmingham               |
| Steel Co. of Scotland, Ltd. | 23, Royal Exchange Sq.,  |
|                             | Glasgow                  |
| Stewarts & Lloyds, Ltd.     | 41, Oswald St., Glasgow, |
|                             | & Nile St., Birmingham   |
| Turton T., & Sons, Ltd.     | Sheaf Works, Sheffield   |
| Vickers Limited             | Sheffield                |

**Steel and Iron Works (Plant for).—(See Iron and Steel Works.)****Steel (Tool Special, and High-Speed).**

|                              |                          |
|------------------------------|--------------------------|
| Adams & Benson, Ltd.         | Albion, West Bromwich    |
| Allen Edgar, & Co., Ltd.     | Sheffield                |
| Apex Steel Company, Ltd.     | Penistone Rd., Sheffield |
| Armstrong Sir W. G., Whit-   | 8, Great George St.,     |
| worth & Co., Ltd.            | S.W. 1                   |
| Beardshaw J., & Son, Ltd.    | Sheffield                |
| Brown John, & Co., Ltd.      | Sheffield                |
| Cammell Laird & Co., Ltd.    | Sheffield                |
| Deloro Smelting & Refin-     | 174, Corporation St.,    |
| ing Co., Ltd.                | Birmingham               |
| Fairley James, & Sons,       | Birmingham and           |
| Ltd.                         | Sheffield                |
| Firth Thos., & Sons, Ltd.    | Norfolk Works, Sheffield |
| Gilbertson W., & Co.         | Pontardawe, near         |
|                              | Swansea                  |
| Hall & Pickles, Ltd.         | Port Street, Manchester  |
| Holding John, & Co., Ltd.    | Sheffield                |
| Howell & Co., Ltd.           | Brook Steel Works,       |
|                              | Sheffield                |
| Jessop, Wm., & Sons, Ltd.    | Brightside Works,        |
|                              | Sheffield                |
| Jonas & Colver, Ltd.         | Sheffield                |
| Partington Steel & Iron Co., |                          |
| Ltd.                         | Irlam, Manchester        |
| Stringer & Co. (Sheffield),  |                          |
| Ltd.                         | Sheffield                |
| Vickers Limited              | Sheffield                |

**Steering Gear.**

|                             |                          |
|-----------------------------|--------------------------|
| Alley & Macellan, Ltd.      | Sentinel Works, Glasgow  |
| Carron Company              | Carron, Stirlingshire    |
| Kitchen's Reversing Rud-    | 717, Royal Liver Build-  |
| der Co., Ltd.               | ing, Liverpool           |
| Napier Bros., Ltd.          | 130, Hydepark St., Glas- |
|                             | gow, W.                  |
| Turnbull Alex., & Co., Ltd. | Bishopbriggs, Glasgow    |

**Stokers (Mechanical).**

|                         |                          |
|-------------------------|--------------------------|
| Bennis Ed., & Co., Ltd. | Bolton                   |
| Meldrums Ltd.           | Sheffield                |
| Proctor J., Ltd.        | Timperley, nr. M'chester |
| Triumph Stoker, Ltd.    | Burnley, Lancashire      |
|                         | Kirkstall Rd., Leeds     |

**Stonebreakers.—(See also Disintegrators.)**

|                          |                          |
|--------------------------|--------------------------|
| Allen Edgar, & Co., Ltd. | Sheffield                |
| Goodwin, Barsby & Co.    | Leicester                |
| Hadfields Limited        | Hecla Works, Sheffield   |
| Marsden H. R., Ltd.      | Soho Foundry, Leeds      |
| Parker Frederick         | Dunn's Lane, Leicester   |
| Robey & Co., Ltd.        | Lincoln                  |
| Western Wheeled Scraper  |                          |
| Co.                      | Aurora, Illinois, U.S.A. |

**Structural Engineering.**

|                                                            |                                             |
|------------------------------------------------------------|---------------------------------------------|
| American Steel Export Co.                                  | Woolworth Building,<br>New York, U.S.A.     |
| Anderson D., & Son, Ltd.                                   | Lagan Works, Belfast                        |
| Armstrongs & Main, Ltd.                                    | Australia House, Strand,<br>W.C.            |
| Arrol Sir William, & Co.,<br>Ltd.                          | Dalmarnock Ironworks,<br>Bridgeton, Glasgow |
| Ash Joseph, & Son<br>Ashmore, Benson, Pease<br>& Co., Ltd. | Rea St. South, Birming-<br>ham              |
| Baldwins Ltd.                                              | Stockton-on-Tees                            |
| Bellamy John, Ltd.                                         | 5, Fenchurch St., E.C.                      |
| Belmont Iron Works                                         | Millwall, S.E.                              |
| Booth John, & Sons                                         | Philadelphia, U.S.A.                        |
| Boulton & Paul, Ltd.                                       | Bolton                                      |
| Bradley & Foster, Ltd.                                     | Norwich                                     |
|                                                            | 105, Colmore Row, Bir-<br>mingham           |
| Braithwaite & Co.                                          | 117, Victoria St., S.W. 1                   |
| Brandon Bridge-Building<br>Co., Ltd.                       | Brandon Wks, Motherwell                     |
| Butterley Co., Ltd.                                        | Derby                                       |
| Clayton Son, & Co., Ltd.                                   | Hunslet, Leeds                              |
| Cleveland Bridge & En-<br>gineering Co., Ltd.              | Darlington                                  |
| Clyde Structural Iron Co.,<br>Ltd.                         | Clydeside Ironworks,<br>Scotstoun, Glasgow  |
| Farrar Boiler Works, Ltd.                                  | Lincoln                                     |
| Findlay Alex., & Co., Ltd.                                 | Motherwell, nr. Glasgow                     |
| Fletcher Geo., & Co., Ltd.                                 | Derby                                       |
| Gibbons Bros., Ltd.                                        | Dudley, Worc.                               |
| Head, Wrightson & Co., Ltd.                                | Thornaby-on-Tees                            |
| Heenan & Froude, Ltd.                                      | Manchester                                  |
| Horseley Bridge & Engin-<br>eering Co., Ltd.               | Tipton, Staffordshire                       |
| Keay E. C. & J., Ltd.                                      | Corporation St., Bir-<br>mingham            |
| Kloos F., & Sons                                           | 20, Copthall Ave., E.C. 2                   |
| Lambourne & Co., Ltd.                                      | Openshaw, Manchester                        |
| Lilleshall Co., Ltd.                                       | Oakengates, Shropshire                      |
| Lysaght John, Ltd.                                         | St. Vincent Ironworks,<br>Bristol           |
| McClintic-Marshall Pro-<br>ducts Co.                       | 50, Church St., New<br>York, U.S.A.         |
| MacLellan P. & W., Ltd.                                    | Clutha Works, Glasgow                       |
| Maxwell & Fage                                             | 49, Sefton St., Liverpool                   |
| Mechans Limited                                            | Glasgow                                     |
| Motherwell Bridge Co., Ltd.                                | Motherwell, N.B.                            |
| Piggott Thos., & Co., Ltd.                                 | Springhill, Birmingham                      |
| Redpath, Brown & Co.,<br>Ltd.                              | 2, St. Andrew Square,<br>Edinburgh          |
| Sands Geo., & Son, Ltd.                                    | Colwick, Nottingham                         |
| Smith & Pearson, Ltd.                                      | Newcomen Ironworks,<br>Dublin               |
| Smulders A. F.                                             | Schiedam, Holland                           |
| Somerville Barnard Con-<br>struction Co., Ltd.             | Archangel Works, New<br>Cross, S.E. 14      |
| Steel Construction Co., Ltd.                               | Craighall Ironworks,<br>Glasgow             |
| Stewarts & Lloyds, Ltd.                                    | 41, Oswald St., Glasgow                     |

**Sugar Machinery.**

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Blair, Campbell & McLean,<br>Ltd. | Woodville St., Govan,<br>Glasgow |
| Craig A. F., & Co., Ltd.          | Paisley                          |
| Davis & Primrose, Ltd.            | Leith, Edinburgh                 |
| Fawcett, Preston & Co., Ltd.      | Liverpool                        |
| Harvey Engineering Co., Ltd.      | Glasgow                          |
| Manlove, Elliott & Co., Ltd.      | Nottingham                       |
| Mirrlees Watson Co., Ltd.         | Scotland St., Glasgow            |

**Sugar Machinery—Continued.**

|                             |                                    |
|-----------------------------|------------------------------------|
| Piggott Thos., & Co., Ltd.  | Springhill, Birmingham             |
| Pott, Cassels & Williamson  | Motherwell, nr. Glasgow            |
| Robey & Co., Ltd.           | Lincoln                            |
| Ruston & Hornsby, Ltd.      | Sheaf Ironworks, Lincoln           |
| Stewart Duncan, & Co., Ltd. | Glasgow                            |
| Watson, Laidlaw & Co., Ltd. | 98, Dundas St. (South),<br>Glasgow |

**Superheaters.**

|                                    |                                 |
|------------------------------------|---------------------------------|
| Adamson Daniel, & Co., Ltd.        | Dukinfield                      |
| Danks H. & T. (Netherton),<br>Ltd. | Netherton, Dudley               |
| Davey, Paxman & Co., Ltd.          | Colchester                      |
| Galloways, Ltd.                    | Manchester                      |
| Garrett R., & Sons, Ltd.           | Leiston Works, Suffolk          |
| Heenan & Froude, Ltd.              | Worcester                       |
| Mechans Limited                    | Scotstoun Ironworks,<br>Glasgow |
| Millwall Engineering Co.,<br>Ltd.  | 21, Panton St., S.W. 1          |
| Sugden T., Ltd.                    | 180, Fleet St., E.C.            |
| Superheater Corporation, Ltd.      | 14, New Burlington St.,<br>W.   |
| Superheater Units, Ltd.            | 4, Castle Sq., Swansea          |
| Thompson John, Ltd.                | Wolverhampton                   |
| Tinker, Shenton & Co., Ltd.        | Hyde, nr. Manchester            |

**Surveyors.—(See Auctioneers, &c.)****Switchboards & Accessories.—(See also Electric Light-  
ing & Power Plant, and Instruments—Electrical  
Surveying, &c.)**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| British Thomson-Houston<br>Co., Ltd. | Rugby                                |
| Electric Construction Co.,<br>Ltd.   | 9, New Broad St., E.C. 2             |
| Electric Control, Ltd.               | Bridgeton, Glasgow                   |
| Electrical Apparatus Co.,<br>Ltd.    | South Lambeth Rd., S.W.<br>8         |
| English Electric Co., Ltd.           | Queen's House, Kings-<br>way, W.C. 2 |
| General Electric Co., Ltd.           | Magnet House, Kings-<br>way, W.C. 2  |
| Holme Edward, & Co.,<br>Ltd.         | Altrincham, Cheshire                 |
| Holmes J. H., & Co.                  | Newcastle-upon-Tyne                  |
| Igranic Electric Co., Ltd.           | 147, Queen Victoria St.,<br>E.C.     |
| Johnson & Phillips, Ltd.             | Charlton, S.E. 7                     |
| Laurence, Scott & Co., Ltd.          | Norwich                              |
| Reyrolle A., & Co., Ltd.             | Hebburn-on-Tyne                      |

**Switches and Crossings.**

|                                                                 |                                     |
|-----------------------------------------------------------------|-------------------------------------|
| Cammell Laird & Co., Ltd.                                       | Sheffield                           |
| Heenan & Froude, Ltd.                                           | Worcester                           |
| McKenzie & Holland, Ltd.                                        | 82, York Rd., King's<br>Cross, N. 1 |
| McKenzie, Holland & West-<br>inghouse Power Signal<br>Co., Ltd. | 82, York Rd., King's<br>Cross, N. 1 |
| Summerson Thomas, &<br>Sons, Ltd.                               | Darlington                          |
| Vickers Limited                                                 | Sheffield                           |
| White Rd., & Sons                                               | Widnes, Lancs.                      |

**Tanks and Drums.**

|                           |                          |
|---------------------------|--------------------------|
| Ash Joseph, & Son         | Rea St. South, Birm'gh'm |
| Baldwins, Ltd.            | 3, St. Helen's Pl., E.C. |
| Bellamy John, Ltd.        | Millwall, E. [N.W. 1     |
| Brady Fredk., & Co., Ltd. | 332 to 364, Buxton Rd.,  |



**Tanks and Drums—Continued.**

|                                         |                                          |
|-----------------------------------------|------------------------------------------|
| Brandon Bridge-Building Co., Ltd.       | Brandon Wks, Motherwell                  |
| Brown Lenox & Co. (London), Ltd.        | Poplar, E.                               |
| Butterfield W. P., Ltd.                 | Shipleigh, Yorks                         |
| Clay Cross Co., Ltd.                    | Clay Cross, nr. Chester                  |
| Cleaton Son, & Co., Ltd.                | Hunslet, Leeds                           |
| Clyde Structural Iron Co., Ltd.         | Clydeside Ironworks                      |
| Danks H. & T. (Netherton), Ltd.         | Scotstoun, Glasgow                       |
| Harvey G.A. & Co. (London), Ltd.        | Netherton, Dudley                        |
| Head, Wrightson & Co., Ltd.             | Greenwich Metal Wks., Woolwich Rd., S.B. |
| Horseley Bridge & Engineering Co., Ltd. | Thornaby-on-Tees                         |
| Jenkins R., & Co., Ltd.                 | Tipton, Staffordshire                    |
| Keay E. C. & J., Ltd.                   | Rotherham, Eng.                          |
| Lysaght, John, Ltd.                     | Corporation St., Birmingham              |
| McClintic-Marshall Pro-ducts Co.        | St. Vincent Ironworks, Bristol           |
| Mechans Limited                         | 50, Church St., New York, U.S.A.         |
| Motherwell Bridge Co., Ltd.             | Glasgow                                  |
| Newton, Chambers & Co., Ltd.            | Motherwell, N.B.                         |
| Piggott Thos., & Co., Ltd.              | Thorncliffe Ironworks, near Sheffield    |
| Ransomes & Rapier, Ltd.                 | Springhill, Birmingham                   |
| Steel Construction Co., Ltd.            | Ipswich                                  |
| Sudron Thos., & Co., Ltd.               | Craighall Ironworks, Glasgow             |
| Thompson Bros. (Bilston), Ltd.          | Stockton-on-Tees                         |
| Valor Company, Ltd.                     | Bradley Eng. & Boiler Works, Bilston     |
|                                         | Aston Cross, Birmingham                  |

**Tanners and Curriers.**

|                          |            |
|--------------------------|------------|
| Tullis John, & Son, Ltd. | Glasgow    |
| Webb & Son (Combs), Ltd. | Stowmarket |

**Taper Pins.—(See Pins—Taper.)****Tea-Dressing Machinery.**

|                                  |              |
|----------------------------------|--------------|
| Marshall, Sons & Co., Ltd.       | Gainsborough |
| Ransomes, Sims & Jefferies, Ltd. | Ipswich      |

**Telegraph Cable-Laying Machines.—(See Cable-Laying Machinery.)****Telegraph Instruments.**

|                                                        |                |
|--------------------------------------------------------|----------------|
| India Rubber, Gutta Percha & Telegraph Wks., Co., Ltd. | Silvertown, B. |
|--------------------------------------------------------|----------------|

**Telegraph Wire & Cables.—(See also Electric Cables.)**

|                                                       |                     |
|-------------------------------------------------------|---------------------|
| British Insulated & Helsby Cables, Ltd.               | Prescot, Lancashire |
| India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. | Silvertown, B.      |

**Telegraphs (Engine and Steering).**

|                                       |                            |
|---------------------------------------|----------------------------|
| Chadburn's (Ship) Telegraph Co., Ltd. | Cyprus Rd., Bootle, Lancs. |
| Siemens Bros. & Co., Ltd.             | Woolwich, S.E. 18          |

**Telephones.**

|                                             |                                  |
|---------------------------------------------|----------------------------------|
| British L. M. Ericsson Mfg. Co., Ltd.       | 60, Lincoln's Inn Fields, W.C. 2 |
| Caledonian Telephone (New System) Co., Ltd. | 62-64, Robertson St., Glasgow    |

**Testing.—(See also Laboratories.)****Testing Machines and Instruments.**

|                                                       |                                           |
|-------------------------------------------------------|-------------------------------------------|
| Alexander George H.                                   | Coleshill St., Birmingham                 |
| Amsler Alfred J., & Co.                               | Schaffhouse, Switzerland                  |
| Avery W. & T., Ltd.                                   | Soho Foundry, Birmingham                  |
| Bailey Sir W. H., & Co., Ltd.                         | Salford, Manchester                       |
| Bradley & Turton, Ltd.                                | Kidderminster                             |
| Buckton Joshua, & Co., Ltd.                           | Leeds                                     |
| Coats Machine Tool Co., Ltd.                          | 14, Palmer St., Westminster, S.W. 1       |
| Cooke T., & Sons, Ltd.                                | Buckingham Works, York                    |
| Denison Saml., & Sons, Ltd.                           | 28, Victoria St., S.W. 1                  |
| Foster Instrument Co.                                 | Letchworth, Herts                         |
| India Rubber, Gutta Percha & Telegraph Wks. Co., Ltd. | Silvertown, E.                            |
| Shore Instrument & Manufacturing Co.                  | Van Wyck Av. & Carl St., New York, U.S.A. |
| Tangyes Limited                                       | Birmingham                                |

**Textile Machinery.****Thermometers.—(See Pyrometers.)****Timber.**

|                                |                            |
|--------------------------------|----------------------------|
| Calders, Ltd.                  | 10A, George St., Edinburgh |
| Cawood G. R., & Co.            | 4, South Parade, Leeds     |
| Southern James W., & Son, Ltd. | Store St., Manchester      |

**Timber (Drying and Preserving).**

|                                   |                            |
|-----------------------------------|----------------------------|
| Calders, Ltd.                     | 10A, George St., Edinburgh |
| Longbotham Jonathan, & Sons, Ltd. | Water Lane, Sheffield      |

**Time-Checking Machines and Registers.**

|                                 |                             |
|---------------------------------|-----------------------------|
| Bailey Sir W. H., & Co., Ltd.   | Salford, Manchester         |
| British Time Recorder Co., Ltd. | 149, Farringdon Rd., E.C. 1 |
| Llewellyn's Machine Co.         | Bristol, England            |

**Tools (Hand and Small).—(See also Chucks, Files, and Machine Tools.)**

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Ackworthie John, Ltd.                      | Coleshill Street, Birmingham                 |
| Alldays & Onions, Ltd.                     | Birmingham                                   |
| Apex Steel Co., Ltd.                       | Penistone Rd., Sheffield                     |
| Armstrong Mfg. Co.                         | 338, Knowlton St., Bridgeport, Conn., U.S.A. |
| Armstrong Sir W. G., Whitworth & Co., Ltd. | 8, Gt. George St., S.W. 1                    |
| Armstrong, Stevens & Son, Ltd.             | Whitall St., Birmingham                      |
| Beardshaw J., & Son, Ltd.                  | Baltic Steel Wks, Sheffield                  |
| Boston Scale and Machine Co.               | Boston, Mass., U.S.A.                        |

**Tools (Hand and Small)—Continued.**

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Bristol Pneumatic Tools, Ltd.                | 140, Victoria St., Bristol              |
| British Nu-Tul Co.                           | 18, Princes St., W. 1                   |
| Brooke Tool Mfg. Co., Ltd.                   | Greet, Birmingham                       |
| Brunton & Trier                              | 36, Victoria St., S.W. 1                |
| Buck & Hickman, Ltd.                         | 2 & 4, Whitechapel Rd., E. 1            |
| Budgett, H. M.                               | Crown Works, Chelmsford                 |
| Campbell & Isherwood, Ltd.                   | Bootle, nr. Liverpool                   |
| Chatwin Thos., Ltd.                          | Gt. Tindal St., Birm'gham               |
| Churchill Chas., & Co., Ltd.                 | 9 to 15, Leonard St., E.C.              |
| Cie. des Moteurs "National"                  | 32, Rue des Mathurines, Paris           |
| Coats Machine Tool Co., Ltd.                 | 14, Palmer St., S.W. 1                  |
| Consolidated Pneumatic Tool Co., Ltd.        | Egyptian House, 170, Piccadilly, W. 1   |
| Crockatt, W., & Sons, Ltd.                   | 64, Darnley St., Glasgow                |
| Cuffin, W. H.                                | North Evington, Leicester               |
| Cushman Chuck Co.                            | Hartford, Conn., U.S.A.                 |
| Daniell S. A., Ltd.                          | Edward St., Parade, Birm'gham           |
| Deloro Smelting & Refining Co., Ltd.         | 174, Corporation St., Birmingham        |
| Dempster, Moore & Co., Ltd.                  | 49, Robertson St., Glasgow              |
| Farmer & Co.                                 | 145, St. John St., Clerkenwell, E.C.    |
| Firth Thos., & Sons, Ltd.                    | Norfolk Works, Sheffield                |
| Forbes Brothers                              | Doe St., Birmingham                     |
| Gardner, T. J.                               | Century Tool Works, Bristol             |
| Gilman Frank                                 | 9, Westfield Rd., Birm'gham             |
| Globe Pneumatic Engineering Co., Ltd.        | 1, Victoria St., S.W. 1                 |
| Hampton & Beebee, Ltd.                       | Wednesbury, South Staffs.               |
| Heap Joshua, & Co., Ltd.                     | Ashton-under-Lyne                       |
| Holding John, & Co., Ltd.                    | Sheffield                               |
| Hollingsdrake H., & Son, Ltd.                | Stockport                               |
| Jacobs Mfg. Co.                              | Hartford, Conn., U.S.A.                 |
| Jones A. A., & Shipman, Ltd.                 | East Park Rd., Leicester                |
| Lanston Monotype Corporation, Ltd.           | 43, Fetter Lane, E.C. 4                 |
| Lash, Robert H.                              | 29-31, Portugal St., W.C. 2             |
| Lunts, Ltd.                                  | Halford St., Leicester                  |
| Malden & Co., Ltd.                           | Hyde, Cheshire                          |
| Matterson, Ltd.                              | Shawclough, Rochdale                    |
| Munzing H., Ltd.                             | 90-96, Union St., S.E. 1                |
| Newall Engineering Co.                       | Walthamstow, E. 17                      |
| Parc, Ltd.                                   | Clarence Wks., Lockhurst Lane, Coventry |
| Pitters' Ventilating & Engineering Co., Ltd. | Woolwich, S.E. 18                       |
| Precision Gauges, Ltd.                       | Wrentham St., Birmingham                |
| Robertson Thos. R.                           | 7, Hurst St., Liverpool                 |
| Selson Engineering Co., Ltd.                 | 85, Queen Victoria St., B.C.            |
| Shaw John, & Sons (Wolverhampton), Ltd.      | Wolverhampton                           |
| Skinner Chuck Co.                            | 139, Queen Victoria St., E.C. 4         |
| Spafford Tool Works                          | Hartford, Conn., U.S.A.                 |
| Stone J. B., & Co., Ltd.                     | 135, Finsbury Pavement, B.C.            |

**Tools (Hand and Small)—Continued.**

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Taylor Charles (Birm'gham), Ltd. | Bartholomew Sq., Birm'gham                  |
| Trimont Mfg. Co.                 | 55-71, Amory St., Roxbury, Mass., U.S.A.    |
| Tuck & Blackmore, Ltd.           | Coventry                                    |
| Vickers F. E.                    | Robertson St., Glasgow                      |
| Vickers Limited                  | Vickers House, Broadway, Westminster, S.W.  |
| Ward H. W., & Co., Ltd.          | Selly Oak, Birmingham                       |
| Wells A. C., & Co.               | 102, Midland Rd., N.W.                      |
| Wharton, H.                      | Reddish, Stockport                          |
| White, Jacoby & Co., Ltd.        | Bayham Place, Camden Town, N.W. 1           |
| Widdowson John H.                | Salford, Manchester                         |
| Williams J. H., & Co.            | 91, Richard St., Brooklyn, New York, U.S.A. |
| Wilt Twist Drill Company         | Walkerville, Ontario, Canada                |
| Wrigley B. G., & Co., Ltd.       | Foundry Lane Works, Soho, Birmingham        |

**Tools (Pneumatic).—(See Pneumatic Tools.)****Torpedo Boats and Destroyers.**

|                               |                                     |
|-------------------------------|-------------------------------------|
| Normand Augustin              | 67, Rue du Perrey, Le Havre, France |
| Smit L., & Zoons              | Kinderdijk, Holland                 |
| Thornycroft J.L., & Co., Ltd. | 10, Grosvenor Place, S.W. 1         |
| White J. Samuel, & Co., Ltd.  | East Cowes, Isle of Wight           |
| Yarrow & Co., Ltd.            | Glasgow                             |

**Torsion Motors.**

|                                       |                            |
|---------------------------------------|----------------------------|
| Chadburn's (Ship) Telegraph Co., Ltd. | Cyprus Rd., Bootle, Lancs. |
|---------------------------------------|----------------------------|

**Tractors (Oil, Steam, &c.).**

|                                        |                                 |
|----------------------------------------|---------------------------------|
| Agricultural & General Engineers, Ltd. | Central House, Kingsway, W.C. 2 |
| Clayton & Shuttleworth, Ltd.           | Lincoln                         |
| Marshall, Sons & Co., Ltd.             | Gainsborough                    |
| Robey & Co., Ltd.                      | Lincoln                         |

**Tramways and Tramway Plant.**

|                                      |                                                           |
|--------------------------------------|-----------------------------------------------------------|
| Allen Edgar, & Co., Ltd.             | Sheffield [E.C.]                                          |
| Birch John, & Co., Ltd.              | 2, London Wall Buildings, Brecknell, Munro & Rogers, Ltd. |
| Brown John, & Co., Ltd.              | Thriswell St., Bristol                                    |
| Hadfields Limited                    | Sheffield                                                 |
| Hawthorn R. & W., Leslie & Co., Ltd. | Hecla Works, Sheffield                                    |
| Hurst, Nelson & Co., Ltd.            | Newcastle-on-Tyne                                         |
| Ruston & Hornsby, Ltd.               | Motherwell, N.B. Grantham                                 |

**Transporters.**

|                                     |                         |
|-------------------------------------|-------------------------|
| Arrol Sir Wm., & Co., Ltd.          | Bridgeton, Glasgow      |
| Brown Hoisting Machinery Co.        | Cleveland, Ohio, U.S.A. |
| Cowans, Sheldon & Co., Ltd.         | Carlisle                |
| Fraser & Chalmers Engineering Works | Erith, Kent             |
| Henderson, John M., & Co.           | Aberdeen, Scotland      |

**Transporters—Continued.**

Higginbottom & Mannock, Ltd. . . . . West Gorton, Manchester  
Kloos F., & Sons . . . . . 20, Copthall Ave., E.C. 2  
Ruston & Hornsby, Ltd. . . . . Sheaf Ironworks, Lincoln  
Wellman Smith Owen Eng. Corp., Ltd. . . . . King's House, Kingsway, W.C. 2  
Whitaker D. . . . . 1, Union St., Leicester

**Tubes (Brass and Copper).—(See also Pipes.)**

Birmingham Battery and Metal Co., Ltd. . . . . Birmingham  
Bolton Thomas, & Sons, Ltd. . . . . 57, Bishopsgate, E.C. 2  
Broughton Copper Co., Ltd. . . . . Manchester  
Delta Metal Co., Ltd. . . . . Dartmouth St., B'ingham  
Grice, Grice & Son, Ltd. . . . . Sheepcote St., B'ingham  
Millwall Engineering Co., Ltd. . . . . 21, Pantom St., S.W. 1  
Muntz P. H., & Co., Ltd. . . . . West Bromwich  
Royles, Ltd. . . . . Irlam, near Manchester  
Serk Radiators, Ltd. . . . . Warwick Rd., Greet, Birmingham  
Yorkshire Copper Wks., Ltd. . . . . Leeds

**Tubes (Iron and Steel).**

American Steel Export Co. . . . . Woolworth Building, New York, U.S.A.  
Chesterfield Tube Co., Ltd. . . . . Chesterfield  
Clark George, & Sons (Hull), Ltd. . . . . Waterhouse Lane, Hull  
Clayton, Son & Co., Ltd. . . . . Humlet, Leeds  
Foster Brothers, Ltd. . . . . Wednesbury  
Howell & Co., Ltd. . . . . Sheffield [E.C.  
Le Bas Edward, & Co. . . . . Dock House, Billiter St., Glasgow  
Mechans Limited . . . . . West Bromwich  
Muntz P. H., & Co., Ltd. . . . . Springhill, Birmingham  
Piggott Thos., & Co., Ltd. . . . . Alma Tube Wks., Walsall  
Russell John, & Co., Ltd. . . . . 34, Robertson St., Glasgow  
Scottish Tube Co., Ltd. . . . . 41, Oswald St., Glasgow & Broad St. Chambers, Birmingham  
Spencer John, Ltd. . . . . Wednesbury  
Staffordshire Tube Co., Ltd. . . . . Edmund St., Birmingham  
Steel Pipe Co., Ltd. . . . . Kircaldy, N.B.  
Stewarts & Lloyds, Ltd. . . . . 41, Oswald St., Glasgow & Broad St. Chambers, Birmingham

Tubes, Ltd. . . . . Birmingham  
Tubi-Togni, Ltd. . . . . Brescia, Italy  
Vickers, Ltd. . . . . Sheffield  
Weldless Steel Tube Co., Ltd. . . . . Icknield Port Rd., B'ham  
Wonham, Bates & Goode, Inc. . . . . 3, London Wall Buildings, E.C.

**Tube-Making Machinery.**

Platt Samuel, Ltd. . . . . Wednesbury

**Tube Wells.—(See Well Engineers.)**

**Tubes (Non-Ferrous).**

Wheeler Condenser & Engineering Co. . . . . Carteret, N.J., U.S.A.

**Tug Boats.**

Chalmers Wm., & Co., Ltd. . . . . Rutherglen, Scotland  
Day, Summers & Co., Ltd. . . . . Southampton  
Ferguson Bros. (Port Glasgow), Ltd. . . . . Newark Works, Port Glasgow  
Fleming & Ferguson, Ltd. . . . . Paisley, N.B.  
Loblitz & Co., Ltd. . . . . Renfrew, Scotland

**Tug Boats—Continued.**

McKie & Baxter . . . . . Copland Works, Govan  
Ross & Duncan . . . . . Glasgow [Glasgow  
Smit L., & Zoons . . . . . Kinderdijk, Holland  
Thornycroft J.I., & Co., Ltd. . . . . Southampton; & 10, Grosvenor Place, S.W. 1  
White J. Samuel, & Co., Ltd. . . . . East Cowes, Isle of Wight

**Turbine Pumps.—(See Pumps—Turbine.)**

**Turbines (Water).—(See also Steam Turbines.)**

Allen W.H. Sons & Co., Ltd. . . . . Bedford  
Böving & Co., Ltd. . . . . 56, Kingsway, W.C. 2  
Bescher, Wyss & Co. . . . . 20, Grosvenor Gardens, S.W. 1  
Gilbert Gilkes & Co., Ltd. . . . . Kendal, England  
Günther W., & Sons . . . . . Central Works, Oldham  
International General Electric Co., Inc. . . . . Schenectady, New York, U.S.A.  
Jensen J. & A., & Dahl . . . . . Kristiania, Norway  
Kvaerner Brug, A/s . . . . . Kristiania, Norway  
Vickers Limited . . . . . Sheffield

**Turnstiles.**

Ellison W. T., & Co., Ltd. . . . . Manchester

**Turntables.**

Ashmore, Benson, Pease & Co., Ltd. . . . . Stockton-on-Tees  
Cowans, Sheldon & Co., Ltd. . . . . Carlisle [nr. Manchester  
Heenan & Froude, Ltd. . . . . Newton Heath Ironwks., Ipswich  
Ransomes & Rapier, Ltd. . . . . Ipswich

**Typewriters.**

**Tyres (Railway).**

Beardmore W., & Co., Ltd. . . . . Glasgow  
Bessemer Henry, & Co., Ltd. . . . . Sheffield  
Brown John, & Co., Ltd. . . . . Sheffield  
Cammell Laird & Co., Ltd. . . . . Sheffield  
Firth Thos., & Sons, Ltd. . . . . Norfolk Works, Sheffield  
Vickers Limited . . . . . Sheffield

**Tyres (Rubber).**

Dunlop Rubber Co., Ltd. . . . . Para Mills, Aston Cross, Birmingham  
Michelin Tyre Co., Ltd. . . . . 81, Fulham Rd., Chelsea, S.W.  
North British Rubber Co., Ltd. . . . . 257-259, Oxford St., W.

**Vacuum Dust Plant.**

British Vacuum Cleaner Co., Ltd. . . . . Dept. 5/20, Parson's Co., Ltd. . . . . Green Lane, S.W.

**Valuers.—(See Auctioneers, &c.)**

**Valve Gear.**

Twells' Patent Valve Gear } 25, Millstone Lane, Leicester  
(Duplex Pump) Co. . . . . } cester

**Valve Recasting Machines.**

Jones A. A., & Shipman, Ltd. . . . . East Park Rd., Leicester

**Valves (Gas, Steam, Water, &c.).**

|                                                 |                                     |
|-------------------------------------------------|-------------------------------------|
| Alley & Maclellan, Ltd. . .                     | Sentinel Works, Glasgow             |
| Auld David, & Sons, Ltd. . .                    | Whitevale F'dry, Glasgow            |
| Bailey Sir W. H., & Co., Ltd.                   | Salford, Manchester                 |
| Bell's United Asbestos Co., Ltd. . .            | 59½, Southwark St., S.E.            |
| Berry Henry, & Co., Ltd. . .                    | Croydon Works, Leeds                |
| Birkett T. M., & Sons, Ltd. . .                 | Hanley, Staffordshire               |
| Blair, Campbell & MacLean, Ltd. . .             | Woodville St., Govan, Glasgow       |
| Blakeborough J., & Sons, Ltd. . .               | Brighouse, Yorks.                   |
| British Steam Specialties, Ltd.                 | Bedford St., Leicester              |
| Clark George, & Sons (Hull) Ltd. . .            | Waterhouse Lane, Hull               |
| Clayton Valve Co., Ltd. . .                     | Marton, Blackpool                   |
| Cockburn A., & Co. . .                          | Gateside St., Glasgow               |
| Cockburns Limited . .                           | Cardonald, nr. Glasgow              |
| Crane-Bennett, Ltd. . .                         | 45 to 51, Leman St., E. 1           |
| Crockatt W., & Sons, Ltd. . .                   | 64, Darnley St., Glasgow            |
| Crosby Valve & Engineering Co., Ltd. . .        | 41 & 42, Foley St., W. 1            |
| Davies & Metcalfe, Ltd. . .                     | Romiley, nr. Manchester             |
| Donkin Co., Ltd. (The Bryan)                    | Chesterfield                        |
| East Ferry Road Engineering Works Co., Ltd. . . | Millwall, B.                        |
| Glenfield & Kennedy, Ltd. . .                   | Kilmarnock, N.B.                    |
| Guest & Chrimmes . .                            | Rotherham                           |
| Gutta Percha & Rubber, Ltd.                     | Toronto, Canada                     |
| Ham, Baker & Co., Ltd. . .                      | Langley Green, Birmingham           |
| Hopkinson J., & Co., Ltd. . .                   | Huddersfield                        |
| Kennedy's (Carntyne), Ltd. . .                  | Shuttleston, Glasgow                |
| Lunken Company, Ltd. . .                        | 35, Great Dover St., S.E.           |
| Markt & Co. (London), Ltd. . .                  | 98 & 100, Clerkenwell Rd., E.C. 1   |
| Metallic Mfg. Co. . .                           | Adrossan                            |
| Metallic Valve Co. . .                          | Colonial Hse., Water St., Liverpool |
| Munzing H., Ltd. . .                            | 99-96, Union St., S.E. 1            |
| Ohio Body & Blower Co. . .                      | Cleveland, Ohio, U.S.A.             |
| Piggott Thos., & Co., Ltd. . .                  | Birmingham                          |
| Rice & Co. (Leeds), Ltd. . .                    | Elland Rd., Leeds                   |
| Royles, Ltd. . .                                | Irlam, nr. Manchester               |
| Russell John, & Co., Ltd. . .                   | Manchester                          |
| Scott David . .                                 | Polmadie, Glasgow                   |
| Smith Bros. & Co. (Hyson), Ltd. . .             | Nottingham                          |
| Tubi-Togni, Ltd. . .                            | Brescia, Italy                      |
| Turnbull Alex., & Co., Ltd. . .                 | Bishopbriggs, Glasgow               |
| United Brassfounders & Engineers, Ltd. . .      | Cornbrook, Manchester               |
| White H. B., & Co. . .                          | John Dalton St., Manchester         |
| Woodite Company . .                             | Mitcham Common, Surrey              |
| Worthington-Simpson, Ltd. . .                   | Queen's House, Kingsway, W.C. 2     |

**Valves (Reducing).**

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Auld David, & Sons, Ltd. . .    | Whitevale F'dry, Glasgow                  |
| Bailey Sir W. H., & Co., Ltd.   | Salford, Manchester                       |
| Cockburns Limited . .           | Clydesdale Eng. Works, Cardonald, Glasgow |
| Guest & Chrimmes . .            | Rotherham                                 |
| Hopkinson J., & Co., Ltd. . .   | Huddersfield                              |
| Mason Regulator Co. . .         | Boston, Mass., U.S.A.                     |
| Royles Limited . .              | Irlam, near Manchester                    |
| Sugden T., Ltd. . .             | 180, Fleet St., E.C.                      |
| Turnbull Alex., & Co., Ltd. . . | Bishopbriggs, Glasgow                     |

**Valves (Safety).**

|                               |                       |
|-------------------------------|-----------------------|
| Bailey Sir W. H., & Co., Ltd. | Salford, Manchester   |
| Cockburn A., & Co. . .        | Gateside St., Glasgow |

**Valves (Safety)—Continued.**

|                                          |                                       |
|------------------------------------------|---------------------------------------|
| Cockburns Limited . .                    | Cardonald, near Glasgow               |
| Crosby Valve & Engineering Co., Ltd. . . | 41 & 42, Foley St., W. 1              |
| Hobdell, Way & Co., Ltd. . .             | St. John's House, 124-5, Minories, B. |
| Hopkinson J., & Co., Ltd. . .            | Huddersfield                          |
| Lunken Company, Ltd. . .                 | 35, Great Dover St., B.C.             |
| Manning, Maxwell & Moore, Inc. . .       | New York                              |
| Royles Limited . .                       | Irlam, nr. Manchester                 |
| Russell, John, & Co., Ltd. . .           | Manchester                            |
| Turnbull Alex., & Co., Ltd. . .          | Bishopbriggs, Glasgow                 |

**Ventilators.—(See also Fans and Blowers.)**

|                                               |                               |
|-----------------------------------------------|-------------------------------|
| Alldays & Onions, Ltd. . .                    | Birmingham                    |
| Allen W. H., Sons & Co., Ltd. . .             | Bedford                       |
| Heenan & Froude, Ltd. . .                     | Worcester                     |
| Keith James, & Blackman Co., Ltd. . .         | 27, Farringdon Avenue, E.C.   |
| Murray, McVinnie & Co., Ltd. . .              | Mavisbank Quay, Glasgow       |
| Musgrave & Co., Ltd. . .                      | St. Anne's Ironworks, Belfast |
| Ohio Body & Blower Co. . .                    | Cleveland, Ohio, U.S.A.       |
| Royce Ltd. . .                                | Trafford Park, Manchester     |
| Simon-Carves, Ltd. . .                        | Manchester                    |
| Standard & Oswald Stott (Engineers), Ltd. . . | Leicester                     |
| Sturtevant Engineering Co., Ltd. . .          | 147, Queen Victoria St., B.C. |
| Sutcliffe Ventilating & Drying Co., Ltd. . .  | Manchester                    |
| Thermotank Co. . .                            | 55, West Regent St., Glasgow  |

**Vices.**

|                               |                                      |
|-------------------------------|--------------------------------------|
| Alldays & Onions, Ltd. . .    | 58, Holborn Viaduct, E.C.            |
| Farmer & Co. . .              | 145, St. John St., Clerkenwell, E.C. |
| Firth Thos., & Sons, Ltd. . . | Norfolk Works, Sheffield             |
| Forbes Brothers . .           | Doe St., Birmingham                  |
| Spafford Tool Works . .       | Hartford, Conn., U.S.A.              |

**Vulcanite and Vulcanised Rubber Goods.**

|                                                            |                       |
|------------------------------------------------------------|-----------------------|
| India-Rubber, Gutta Percha & Telegraph Works Co., Ltd. . . | Silvertown, E.        |
| Reddaway F., & Co., Ltd. . .                               | Pendleton, Manchester |

**Wagon (Railway) Builders.**

|                                                  |                                 |
|--------------------------------------------------|---------------------------------|
| American Car and Foundry Co. . .                 | 165, Broadway, New York, U.S.A. |
| Bagnall W. G., Ltd. . .                          | Castle Engine Wks, Staffs       |
| Clayton Wagons, Ltd. . .                         | Lincoln                         |
| Glasgow Railway Engineering Co., Ltd. . .        | Govan, Glasgow                  |
| Head, Wrightson & Co., Ltd. . .                  | Thornaby-on-Tees                |
| Heenan & Froude, Ltd. . .                        | Worcester                       |
| Hurst, Nelson & Co., Ltd. . .                    | Motherwell, N.B.                |
| Kilmarnock Engineering Co., Ltd. . .             | 10, Coleman St., E.C. 2         |
| Leeds Forge Co., Ltd. . .                        | Leeds                           |
| MacLellan P. & W., Ltd. . .                      | Clutha Works, Glasgow           |
| Midland Railway Carriage and Wagon Co., Ltd. . . | Midland Wks, Birmingham         |
| Pickering R. Y., & Co., Ltd. . .                 | Wishaw, near Glasgow            |

**Wagons (Self-Propelled).—(See Motor Vehicles.)**

**Wagons (Tip).**

|                             |    |                          |
|-----------------------------|----|--------------------------|
| Bagnall W. G., Ltd.         | .. | Castle Engine Works,     |
| Bellamy John, Ltd.          | .. | Millwall, B. [Stafford   |
| Hadfields Limited...        | .. | Hecla Works, Sheffield   |
| Hurst, Nelson & Co., Ltd.   | .. | Motherwell, N.B.         |
| McLachlan & Co., Ltd.       | .. | Darlington.              |
| Western Wheeled Scraper Co. | .. | Aurora, Illinois, U.S.A. |

**Waste (Cotton).****Waste Cooling Plant.**

|                                        |    |                                                |
|----------------------------------------|----|------------------------------------------------|
| Brotherhood Peter, Ltd.                | .. | Peterborough                                   |
| Clyne Engineering Co., Ltd.            | .. | 94, Market St., Manchester                     |
| Davenport Engineering Co.              | .. | Harris St., Bradford                           |
| Premier Cooler & Engineering Co., Ltd. | .. | Station Works, Shalford, nr. Guildford, Surrey |
| Wheeler Condenser & Engineering Co.    | .. | Carteret, N.J., U.S.A.                         |

**Waterproofing Compounds.**

|                   |    |                                        |
|-------------------|----|----------------------------------------|
| Ironite Co., Ltd. | .. | 11, Old Queen St., Westminster, S.W. 1 |
| Rowse & Co.       | .. | 1, Dawson St., Whitechapel, Liverpool  |

**Water-Fertilizing Apparatus.—(See Feed-Water Fillers.)**

|                                              |    |                                          |
|----------------------------------------------|----|------------------------------------------|
| Bellamy John, Ltd.                           | .. | Millwall, B.                             |
| Blakeborough J., & Sons, Ltd.                | .. | Brighouse, Yorks                         |
| Buhring's Patent Water Fertilizing Co.       | .. | 146A, Queen Victoria St., E.C.           |
| Harris Patent Feed-Water Filter (1910), Ltd. | .. | 24, Grainger St. West, Newcastle-on-Tyne |
| Kennicott Water Softener Co.                 | .. | Ettingshall Works, Wolverhampton         |
| Paterson Engineering Co., Ltd.               | .. | 21, Windsor House, Kingsway, W.C. 2      |
| Pulsometer Engineering Co., Ltd.             | .. | Nine Elms Ironworks, Reading             |
| Royles Limited                               | .. | Irlam, near Manchester                   |
| United Water Softeners, Ltd.                 | .. | Imperial House, Kingsway, W.C. 2         |

**Wright's Forge & Engineering Co., Ltd.**

Tipton, Staffordshire

**Water Wheels.—(See also Turbines—Water.)**

|                           |    |                          |
|---------------------------|----|--------------------------|
| Barry, Henry & Cook, Ltd. | .. | Aberdeen                 |
| Bodley Bros., & Co.       | .. | Exeter [burgh            |
| Davis & Primrose, Ltd.    | .. | Bangor Rd., Leith, Edin- |

**Watches and Clocks.**

|                               |    |                                             |
|-------------------------------|----|---------------------------------------------|
| Bailey Sir W. H., & Co., Ltd. | .. | Salford, Manchester                         |
| Llewellyn's Machine Co.       | .. | Bristol, England                            |
| Smith S., & Sons, Ltd.        | .. | 6, Grand Hotel Buildings, Trafalgar Sq., W. |

**Welshing Machines.**

|                            |    |                          |
|----------------------------|----|--------------------------|
| Avery W. & T., Ltd.        | .. | Soho Foundry, Birmingham |
| Denison Saml., & Son, Ltd. | .. | 28, Victoria St., S.W. 1 |
| Salter Geo., & Co., Ltd.   | .. | West Bromwich            |

**Welding and Cutting Plant.**

|                               |    |                                       |
|-------------------------------|----|---------------------------------------|
| A 1 Manufacturing Co.         | .. | Sunbridge Rd., Bradford               |
| Acetylene Equipment Co., Ltd. | .. | 268 & 270, South Lambeth Road, S.W. 8 |
| Allen-Liversidge, Ltd.        | .. | 106, Victoria St., S.W.               |

**Welding and Cutting Plant—Continued.**

|                                         |    |                              |
|-----------------------------------------|----|------------------------------|
| Boulton & Paul, Ltd.                    | .. | Norwich                      |
| British Insulated & Helsby Cables, Ltd. | .. | Prescot, Lancashire          |
| British Oxygen Co., Ltd.                | .. | Elverton St., S.W.           |
| Dargue Acetylene Gas Co., Ltd.          | .. | Grey St., Newcastle-on-Tyne  |
| Dissolved Acetylene Corporation, Ltd.   | .. | 49, Victoria St. S.W.        |
| Hartley & Sugden, Ltd.                  | .. | Atlas Works, Halifax, Yorks  |
| McGowan, Wild & Co.                     | .. | Hurst St., Birmingham        |
| Oxy-Acetylene Welding Co., Ltd.         | .. | 169, Finnieston St., Glasgow |
| Picketts, Ltd.                          | .. | Mortimer Works, Hove, Sussex |
| Tilling-Stevens Motors, Ltd.            | .. | Maidstone                    |

**Well Engineers.—(See also Boring & Sinking Tools & Machinery for Shafts and Wells.)**

|                       |    |                                  |
|-----------------------|----|----------------------------------|
| Isler C., & Co., Ltd. | .. | Bear Lane, Southwark St., S.E. 1 |
|-----------------------|----|----------------------------------|

**Wheel-Cutting Machinery.—(See Gear Cutters.)****Wheels (Geared).**

|                                             |    |                             |
|---------------------------------------------|----|-----------------------------|
| Angus George, & Co., Ltd.                   | .. | Newcastle-on-Tyne           |
| Barry Henry, & Cook, Ltd.                   | .. | Aberdeen                    |
| Bessemer Henry, & Co., Ltd.                 | .. | Sheffield                   |
| Bodley Bros. & Co.                          | .. | Exeter                      |
| British Insulated & Helsby Cables, Ltd.     | .. | Prescot, Lancashire         |
| British Rawhide Belting Co., Ltd.           | .. | Willesden, N.W. 10          |
| British Thomson-Houston, Co., Ltd.          | .. | Rugby                       |
| Brown David, & Sons (Huddersfield), Ltd.    | .. | Park Works, Huddersfield    |
| Campbells & Hunter, Ltd.                    | .. | Dolphin Foundry, Leeds      |
| Campbell & Isherwood, Ltd.                  | .. | Bootle, nr. Liverpool       |
| Citroën Gear Co., Ltd.                      | .. | 22, Buckingham Gate, S.W. 1 |
| Entwistle & Gass, Ltd.                      | .. | Atlas Foundry, Bolton       |
| Greenwood's Standard Gear Cutting Co., Ltd. | .. | New Bond St., Halifax       |
| Hadfields Limited.                          | .. | Hecla Works, Sheffield      |
| Hawthorn R. & W., Leslie & Co., Ltd.        | .. | Newcastle-on-Tyne           |
| Jackson P. R., & Co., Ltd.                  | .. | Manchester                  |
| Kirkstall Forge, Ltd.                       | .. | Leeds                       |
| Lang John, & Sons                           | .. | Johnstone, nr. Glasgow      |
| Llewellyn's Machine Co.                     | .. | Bristol, England            |
| Manlove, Alliott & Co., Ltd.                | .. | Nottingham                  |
| Newton, Bear & Mitchell.                    | .. | Dudley Hill, Bradford       |
| Power Plant Co., Ltd.                       | .. | West Drayton, Middlesex     |

|                                             |    |                                    |
|---------------------------------------------|----|------------------------------------|
| Reay Gearworks, Ltd.                        | .. | Gateshead-on-Tyne                  |
| Reid Gear Co.                               | .. | Linwood, near Paisley              |
| Richards Geo., & Co., Ltd.                  | .. | Broadheath, nr. Manchester         |
| Shaw W., & Co.                              | .. | Middlesbrough-on-Tees              |
| Thornycroft J.I., & Co., Ltd.               | .. | Basingstoke                        |
| Tickle John, & Co., Ltd.                    | .. | West Bromwich                      |
| Turbine Gears, Ltd.                         | .. | Hyde, Cheshire                     |
| Unbreakable Pulley & Mill Gearing Co., Ltd. | .. | 48, West Gorton, Manchester        |
| Wallwork Henry, & Co., Ltd.                 | .. | Manchester                         |
| Wigglesworth, Frank, & Co.                  | .. | Clutch Wks., Shipley, nr. Bradford |

**Wheels (Geared)—Continued.**

Wrigley B. G., & Co., Ltd. Foundry Lane Works,  
Soho, Birmingham  
Yates & Thom, Ltd. .. Canal Works, Blackburn

**Wheels (Railway).**

American Car & Foundry } 165, Broadway, New  
Co. .. } York, U.S.A.  
American Steel Export Co., } Woolworth Building, New  
York, U.S.A.  
Beardmore W., & Co., Ltd. Glasgow  
Birmingham Railway Car- }  
riage & Wagon Co., Ltd. } Smethwick, Birmingham  
Firth Thos., & Sons, Ltd. } Norfolk Works, Sheffield  
Glasgow Railway Engineer- }  
ing Co., Ltd. .. } Govan, Glasgow  
Hadfields Limited.. } Hecla Works, Sheffield  
Holcroft's Steel Foundry } Bilston, South Stafford-  
Co., Ltd. .. } shire  
Hurst, Nelson & Co., Ltd. Motherwell, N.B.  
Midland Railway Carriage }  
& Wagon Co., Ltd. .. } Midland Wks, Birm'gham  
Pickering R. Y., & Co., Ltd. Wishaw, near Glasgow  
Sankey Joseph, & Sons, Ltd. Wellington, Shropshire

**Wheels (Rawhide, &c.).**

Angus George, & Co., Ltd. Newcastle-on-Tyne  
Armstrong Sir W. G., Whit- }  
comb & Co., Ltd. .. } 8, Gt. George St., S.W. 1  
British Rawhide Belting Co., }  
Ltd. .. } Willesden, N.W. 10  
British Thomson-Houston }  
Co., Ltd. .. } Rugby  
Reay Gearworks, Ltd. .. } Gateshead-on-Tyne  
Wallwork Henry, & Co., Ltd. Manchester

**Whitewashing and Painting Machines.**

Aerograph Co., Ltd. .. 43, Holborn Viaduct,  
E.C.  
Airstyle & Lithos, Ltd. 35, St. Bride St., Lud-  
gate Circus, E.C.  
Wells A. C., & Co. .. 102, Midland Rd., N.W.

**Winches.—(See Cranes.)****Windlasses.**

Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne  
Napier Bros., Ltd. .. 130, Hyde Park St., Glas-  
gow, W.  
Turnbull Alex., & Co., Ltd. Bishopbriggs, Glasgow

**Wire and Wire Rope Makers.**

Birmingham Battery and }  
Metal Co., Ltd. .. } Birmingham  
British Aluminium Co., Ltd. 109, Queen Victoria St.,  
E.C. 4  
British Insulated & Helsby }  
Cables, Ltd. .. } Prescot, Lancashire

**Wire and Wire Rope Makers—Continued.**

Bolton Thomas, & Sons, Ltd. 57, Bishopsgate, E.C. 2  
Brown W. B., & Co. (Bank } Globe Works, Bankhall,  
hall), Ltd. .. } Liverpool  
Bullivant & Co., Ltd. 72, Mark Lane, B.C.  
Craddock Geo., & Co., Ltd. Wakefield [ham  
Delta Metal Co., Ltd. Dartmouth St., Birming-  
ham  
Elliot George, & Co., Ltd. 16, Gt. George St., S.W.  
Leeds  
Fowler J., & Co. (Leeds), Ltd. Johnson Richard, Clapham  
& Morris, Ltd. .. Lever St., Manchester  
Mowbray F. H. .. 14, Southampton St.,  
Strand, W.C.

**Wire Weaving, Straightening, Colling, Cutting, &c. (Machines for).**

Anderston Foundry Co., Ltd. Glasgow  
Cousland A., & Son 3, Mitchell St., Glasgow  
Igranite Electric Co., Ltd. 147, Queen Victoria St.,  
E.C.  
Shuster F. B. Co. .. Newhaven, Conn, U.S.A.  
Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.

**Wood for Steam, Electrical and Hydraulic Packings.**

Woodite Co. .. Mitcham Common, Surrey

**Wood-Wool Machinery.**

Ransome A., & Co., Ltd. Stanley Works, Newark-  
on-Trent

**Wood-Working Machinery.**

Broom & Wade, Ltd. High Wycombe  
Dempster, Moore & Co., Ltd. Robertson St., Glasgow  
Lees T. & R., Ltd. Hollinwood, nr. Man-  
chester.  
Machinery & Steels, Ltd. 64, Great Eastern St.,  
E.C. 2  
Marshall, Sons & Co., Ltd. Gainsborough  
Parker Frederick .. Dunn's Lane, Leicester  
Pickles John, & Son .. Hebden Bridge, Yorks  
Pollock, Macnab & High-  
gate .. Shettleston, Glasgow  
Ransome A., & Co., Ltd. Stanley Works, Newark-  
on-Trent  
Richards Geo., & Co., Ltd. Broadheath, near Man-  
chester  
Robinson Thos., & Son, Ltd. Rochdale  
Universal Machinery Cor-  
poration, Ltd. .. 326, Old Street, E.C. 2  
Wadkin & Co. .. London St., Leicester

**Worm Gearing.**

Bodley Bros. & Co. Old Quay Foundry, Exeter  
Wallwork Henry, & Co., Ltd. Manchester

**Yachts.—(See Launches and Yachts.)**

# LIST OF ADDRESSES,

## Telegraphic Addresses, Codes, & Telephone Numbers

### OF

### FIRMS NOW ADVERTISING in "ENGINEERING."

| NAME AND ADDRESS OF ADVERTISER.                                                               |                                      | TELEPHONE NUMBER.      | TELEGRAPHIC ADDRESS.               |
|-----------------------------------------------------------------------------------------------|--------------------------------------|------------------------|------------------------------------|
| <b>A-1 Manufacturing Co.,</b> Sunbridge Rd., Bradford                                         |                                      | <b>5152 &amp; 5153</b> | <b>Patterns, Bradford</b>          |
| <b>1 Abbott &amp; Co. (Newark), Ltd.,</b> Newark-on-Trent .. ..                               |                                      | <b>34</b>              | <b>Abbott, Newark</b>              |
| <b>Acetylene Corporation, Ltd.,</b> 49, Victoria St., S.W. ..                                 |                                      | <b>Victoria 4830</b>   | <b>Flamma, London</b>              |
| <b>Acheson E. G., Ltd.,</b> 40, Wood St., S.W. 1 .. ..                                        |                                      | <b>Victoria 9848</b>   | <b>Oldag, Vic., London</b>         |
| <b>Ackworthle John, Ltd.,</b> 51 & 54, Coleshill St., Birmingham                              |                                      |                        |                                    |
|                                                                                               |                                      | <b>Central 7366</b>    | <b>Ackworthle, Birmingham</b>      |
| <b>1 16 Adamson Daniel &amp; Co., Ltd.,</b> Dukinfield .. ..                                  | <b>Ashton 9 &amp; 609</b>            |                        | <b>Adamson, Dukinfield</b>         |
| <b>Adams &amp; Benson, Ltd.,</b> Albion, West Bromwich ..                                     | <b>West Bromwich 161</b>             |                        | <b>Metals, West Bromwich</b>       |
| <b>27 33 Adaptable Moulding Machine Co.,</b> Stanhope St., Birmingham                         | <b>Midland 1966</b>                  |                        | <b>Adaptable, Birmingham</b>       |
| <b>1 Aerial Ropeway Transporters, Ltd.,</b> Craven House, Kingsway, W.C. 2 .. ..              |                                      | <b>Gerrard 2156</b>    | <b>Artransic, London</b>           |
| <b>Aerograph Co., Ltd.,</b> 43, Holborn Viaduct, B.C. ..                                      | <b>Holborn 7041</b>                  |                        | <b>Aerography, London</b>          |
| <b>1 16 Agricultural &amp; General Engineers, Ltd.,</b> Central House, Kingsway, W.C. 2 .. .. |                                      | <b>Gerrard 6850</b>    | <b>Agroengic, Phone, London</b>    |
| <b>11 Allis Shipbuilding Co., Ltd.,</b> Troon, N.B. .. ..                                     | <b>Troon 38, 39 &amp; 58</b>         |                        | <b>Shipyard, Troon</b>             |
| <b>1 Alrostyle &amp; Lithos, Ltd.,</b> 35, St. Bride St., Ludgate Circus, B.C. .. ..          |                                      | <b>Central 12025</b>   | <b>Alrostyle, Fleet, London</b>    |
| <b>1 4 27 Albion Motor Car Co., Ltd.,</b> Scotstoun, Glasgow ..                               | <b>Western 3650</b>                  |                        | <b>Automobile, Glasgow</b>         |
| <b>Aldrich Pump Co.,</b> Allentown, Pa., U.S.A. .. ..                                         |                                      |                        |                                    |
| <b>Alexander B. P., &amp; Son,</b> 306, High Holborn, W.C. ..                                 | <b>Central 7424</b>                  |                        | <b>Epa, London</b>                 |
| <b>1 4 Alexander, George H.,</b> Coleshill St., Birmingham ..                                 | <b>Central 1918</b>                  |                        | <b>Viking, Birmingham</b>          |
| <b>Alexander Herbert, &amp; Co. Ltd.,</b> Leeds .. ..                                         | <b>Central 4580</b>                  |                        | <b>Alexson, Leeds</b>              |
| <b>1 27 Alldays &amp; Onions, Ltd.,</b> Birmingham .. ..                                      | <b>Victoria 487</b>                  |                        | <b>Alldays, Birmingham</b>         |
| <b>Alldays &amp; Onions, Ltd.,</b> 58, Holborn Viaduct, B.C. ..                               | <b>Holborn 5048</b>                  |                        | <b>Typhoon, Cent., London</b>      |
| <b>Allen Edgar, &amp; Co., Ltd.,</b> Imperial Steel Works, Sheffield                          | <b>Sheffield 917</b>                 |                        | <b>Allen, Sheffield</b>            |
| <b>1 4 Allen-Liversidge, Ltd.,</b> 106, Victoria St., S.W. ..                                 | <b>Victoria 4155</b>                 |                        | <b>Accelerator, Sowest, London</b> |
| <b>1 2 Allen W. H., Sons, &amp; Co., Ltd.,</b> Queen's Engineering Wks., Bedford 1            |                                      |                        | <b>Pump, Bedford</b>               |
| <b>1 2 Allen W. H., Sons, &amp; Co., Ltd.,</b> 1, Queen Anne's Chmbs., S.W. [Victoria 7680    |                                      |                        | <b>Pump, London</b>                |
| <b>2 3 6 Alley &amp; MacLellan, Ltd.,</b> Sentinel Works, Glasgow ..                          | <b>Queen's Park 751</b>              |                        | <b>Alley, Glasgow</b>              |
| <b>1 3 Allied Steel Makers &amp; Founders, Ltd.,</b> Central House, Kingsway, W.C. 2 .. ..    | <b>Regent 2368</b>                   |                        | <b>Steeleite, Westcent, London</b> |
| <b>American Car &amp; Foundry Co.,</b> 165, Broadway, New York, U.S.A. .. ..                  |                                      | <b>Cortlandt 8110</b>  | <b>Carex, New York</b>             |
| <b>1 16 American Lead Pencil Co.,</b> 173-5, Lower Clapton Rd., N.E. ..                       | <b>Dalston 800</b>                   |                        | <b>Ecrit, London</b>               |
| <b>2 4 33 American Steel Export Co.,</b> Woolworth Building, New York, U.S.A. .. ..           |                                      |                        |                                    |
| <b>1 Amstler Alfred J., &amp; Co.,</b> Schaffhouse, Switzerland ..                            | <b>Schaffhouse 4-84</b>              |                        | <b>Allports</b>                    |
| <b>1 Anderson D., &amp; Son, Ltd.,</b> Lagan Works, Belfast ..                                |                                      |                        | <b>Jamsler, Schaffhouse</b>        |
|                                                                                               | <b>Belfast 4033, 4034 &amp; 4035</b> |                        | <b>Anderson, Belfast</b>           |
| <b>1 Anderson Foundry Co., Ltd.,</b> 100, Cheapside St., Glasgow ..                           | <b>Central 6260</b>                  |                        | <b>Afco, Glasgow</b>               |

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| 4 6 27                          | Anderson-Grice Co., Ltd., Carnoustie, Scotland ..                                             | Carnoustie 14        | Diamond, Carnoustie         |
|                                 | Andrews & Beaumont, 29, Southampton Buildings, W.C. 2                                         | Holborn 541          | Andrube, Phone, London.     |
|                                 | Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Circus, E.C. 2 ..                        | London Wall 1200     | Mexprodex, Ave., London     |
| 1 4 6                           | Angus George, & Co., Ltd., Newcastle-on-Tyne ..                                               | 956 & 957            | Angus, Newcastle            |
| 1                               | Apex Steel Co., Ltd., Penistone Rd., Sheffield ..                                             | Central 4687         | Apex, Sheffield             |
| 1 2 3                           | Archdale Jas., & Co., Ltd., Ledsam St., Birmingham ..                                         | 3558                 | Archdale, Birmingham        |
|                                 | Armstrong Mfg. Co., 338, Knowlton St., Bridgeport, Conn., U.S.A. —                            | —                    | —                           |
| 4 16 33                         | Armstrong Sir W. G., Whitworth & Co., Ltd., 8 Great George St., Westminster, S.W. 1 ..        | Victoria 4010        | Zigzag, Parl., London       |
|                                 | Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham Central 6148 & 6149                  | —                    | Armstrongs, Birmingham      |
| 1 3 4                           | Armstrongs & Maip, Ltd., Australia House, Strand, W.C. 2                                      | City 5380            | Kelvin, Strand, London      |
| 1                               | Arnold Edward, 41 & 43, Maddox St., W. ..                                                     | Mayfair 1883         | Scholarly, London           |
|                                 | Arrol Sir William, & Co., Ltd., Bridgeton, Glasgow ..                                         | Bridgeton 940-943    | Tay, Glasgow                |
| 1                               | Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham                                       | [Midland 2440        | Tanks, Birmingham           |
| 4                               | Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees                                          | [Stockton 501        | Gasholder, Stockton-on-Tees |
| 1 4                             | Asquith William (1919), Ltd., Park Works, Halifax ..                                          | Halifax 1558         | Drill, Halifax              |
| 1 4                             | Associated British Machine Tool Makers, Ltd., 17, Grosvenor Gardens, S.W. 1 ..                | Victoria 7060        | Britoolmak, Phone, London   |
|                                 | Association of British Driving Chain Manufacturers, Basishaw House, Basinghall St., E.C. 2 .. | London Wall 1812 & 3 | Portland, Ave., London      |
| 1 4 16                          | Atkins E. C., & Co., Inc., Indianapolis, Indiana, U.S.A. ..                                   | Main 6000            | Atkinsaw, Indianapolis      |
|                                 | Atkins Harry F., Ltd., Old Fletton, Peterborough ..                                           | Peterborough 252     | Atkins, Old Fletton         |
| 1                               | Atlas Diesel Co., Ltd., 35, Surrey St., W.C. 2 ..                                             | Central 9967         | Dieselmot, Estrand, London  |
| 1 2                             | Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C. 1                                | City 4941            | Aloyan, Cannon, London      |
| 1 4                             | Aster Engineering Co. (1913), Ltd., Wembley, Middlesex                                        | [Wembley 22 & 23     | Aster, Wembley              |
|                                 | Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow                                          | [Bridgeton 256       | Reducing, Glasgow           |
| 1 6                             | Austin Motor Co., Ltd., Northfield, Birmingham                                                | Kings Norton 230     | Speedily, Northfield        |
| 6                               | Avelling & Porter, Ltd., Rochester ..                                                         | Chatham 512          | Avelling, Rochester         |
| 1 2                             | Avery W. & T., Ltd., Soho Foundry, Birmingham ..                                              | Smethwick 134        | Avery, Birmingham           |
| 1 6                             | Aveside Engine Co., Ltd., Bristol ..                                                          | Fishponds 30         | Loce, Bristol               |
| 20                              | Bagnall W. G., Ltd., Castle Engine Works, Stafford ..                                         | 15                   | Bagnall, Stafford           |
|                                 | Bailey Sir W. H., & Co., Ltd., Albion Works, Salford, Manchester                              | 991                  | Beacon, Salford             |
|                                 | Baker Joseph, Sons & Perkins, Ltd., 21, College Hill, E.C. 4 ..                               | City 748             | Bakers, London              |
| 1                               | Balderson & Co., Ltd., 201, St. Vincent St., Glasgow ..                                       | Central 4750         | Balderson, Glasgow          |
| 1 16 33                         | Baldwin Locomotive Works, The, 34, Victoria St., S.W. [Victoria 4441                          | —                    | Fribald, London             |
| 1 16                            | Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A. ..             | —                    | Baldwin, Philadelphia       |
| 1 8                             | Baldwins, Ltd., 3, St. Helen's Place, Bishopsgate, E.C. [Avenue 5113-4                        | —                    | Promptitude, London         |
| 1 8                             | Baldwins, Ltd., Orchard Place, Blackwall, E. ..                                               | East 1074            | Silverline, London          |
| 1 2 3 4                         | Barclay Andrew, Sons, & Co., Ltd., Caledonia Wks., Kilmarnock                                 | 10 & 11              | Barclayson, Kilmarnock      |
| 1                               | Barford & Perkins, Ltd., Peterborough ..                                                      | 28                   | Barford, Peterborough       |
|                                 | Barker, Splink, Lease & Co., Rosse Works, Shipley, Yorks ..                                   | 99                   | Lathe, Shipley              |
| 1 4 6 33                        | Barnard H. B., & Sons, Glyn St., Vauxhall, S.E. 11 ..                                         | Hop 4520             | Metalcibles, Vaux., London  |
| 1 2 16                          | Barr, Thompson & Co., Ltd., Kilmarnock, Scotland ..                                           | Kilmarnock 71        | Barr, Kilmarnock            |
|                                 | Barrett & Elers, Ltd., Wallis Rd., Hackney Wick, E. 9                                         | East 887             | Ebonite, Phone, London      |
|                                 | Barry, Henry & Cook, Ltd., Aberdeen ..                                                        | Aberdeen 3864        | Barry, Aberdeen             |
| 1 27                            | Bartoline (Hull), Ltd., Myton Place, Hull ..                                                  | Corporation 107      | Barton, Hull                |

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| Bath T., & Co., 18, Savoy St., W.C. 2 .. ..                                                              | Gerrard 5797                | —                                |                      |
| Bassett-Lowke, Ltd., Northampton .. ..                                                                   | Northampton 735             | Bassett-Lowke, Northampton       |                      |
| 1 4 Bassanger, J. & C., Ltd., Audrey House, Ely Place, E.C. 1 [Holborn 4831                              |                             | Deildidum, London                |                      |
| 1 2 Bayliss, Jones & Bayliss, Ltd., Wolverhampton .. ..                                                  | 630                         | Bayliss, Wolverhampton           |                      |
| 1 2 16 Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C. [Bank 889                             |                             | Lockfast, London                 |                      |
| Baynes Charles, Ltd., Knuzden Brook, Blackburn .. ..                                                     | 6862                        | Hacksaw, Blackburn               |                      |
| Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow .. ..                                      | Bridgeton 3100              | Beardmore, Glasgow               |                      |
| 6 Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield .. ..                                         | 77 & 80                     | Beardshaw, Sheffield             |                      |
| 6 Beardshaw J., & Son, Ltd., 38, Victoria St., S.W. .. ..                                                | Victoria 1060               | Vilvalle, London                 |                      |
| 4 Bcaudry & Co., Inc., Boston, Mass, U.S.A. .. ..                                                        | —                           | Hammer, Boston                   |                      |
| Beckenham Foundry, Kent House Rd., Beckenham, Kent Sydenham 863                                          |                             | —                                |                      |
| 4 16 Becker Milling Machine Co., Hyde Park, Boston, U.S.A.                                               |                             | Vertical, Hyde Park, Mass.       |                      |
| 1 3 Bedford Engineering Co., Bedford .. ..                                                               | 33                          | Cranes, Bedford                  |                      |
| Beebe A., Wednesbury .. ..                                                                               | Darlaston 81                | Beebe, Fallings Heath, Wednes-   |                      |
| Beeston & Stevenson, Ltd., Llanelly, Carmarthenshire                                                     | Llanelly 87                 | Furnaces, Llanelly [bury         |                      |
| 1 Beldam Packing & Rubber Co., Ltd., 29, Gracechurch St., B.C. 3 .. ..                                   | Avenue 5204                 | Veeplot, Grace, London           |                      |
| Bellamy John, Ltd., Byng St., Millwall E. .. ..                                                          | East 157                    | Bellamy, London                  |                      |
| 1 3 16 Belliss & Mecom, Ltd., Ledsam St. Works, Birmingham                                               | Midland 2660                | Belliss, Birmingham              |                      |
| 2 16 Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.B.                                          | Hop 4040                    | Bellry or Asbestos, London       |                      |
| 16 Belmont Iron Works, Philadelphia, U.S.A. .. ..                                                        | Bell-Dickinson 511          | Bellron, Philadelphia            |                      |
| 1 4 16 27 Bennie James, & Sons, Ltd., Clyde Engine Works, Govan, Glasgow                                 | Govan 97                    | Ajax, Glasgow                    |                      |
| Bennis Ed., & Co., Ltd., Little Hulton, Bolton .. ..                                                     | Farnworth 13                | Bennis, Little Hulton, Bolton    |                      |
| Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow [Douglas 1266                              |                             | Bergius, Glasgow                 |                      |
| 1 3 Berry F., & Sons, Sowerby Bridge, Yorkshire .. ..                                                    | 525                         | Berry, Sowerby Bridge            |                      |
| 1 2 3 27 Berry Henry, & Co., Ltd., Croydon Works, Leeds .. ..                                            | 20181 & 20183               | Rivetter, Leeds                  |                      |
| 1 4 16 33 Bertrams Limited, Sciennes, Edinburgh .. ..                                                    | Central 6645-6              | Bertram, Edinburgh               |                      |
| 1 Bessemer Henry, & Co., Ltd., Sheffield .. ..                                                           | 161                         | Bessemer, Sheffield              |                      |
| 4 16 33 37 Betts Machine Co., Rochester, New York, U.S.A. .. ..                                          | Chase 4060                  | Betts, Rochester                 |                      |
| 1 3 Bever, Berling & Co., Ltd., Bowling Ironworks, Bradford .. ..                                        | 1644                        | Foundry, Bradford                |                      |
| 1 2 Eoyer, Peacock & Co., Ltd., Gorton Foundry, Manchester .. ..                                         | 255                         | Loce, Gorton                     |                      |
| 1 Billington & Newton, Ltd., Longport, Stoke-on-Trent .. ..                                              | Burslem 364                 | Bronze, Longport                 |                      |
| 1 2 3 6 Birch John, & Co., Ltd., 2, London Wall Buildings, E.C. .. ..                                    | City 4175                   | Endeavour, London                |                      |
| Birkett T. M., & Sons, Ltd., Hanley, Staffordshire .. ..                                                 | 294                         | Birkett, Hanley                  |                      |
| Birmingham Aluminium Castings (1903), Co., Ltd., Birmingham                                              | Central 3349                | Hydraulic, Birmingham            |                      |
| 1 Birmingham Battery & Metal Co., Ltd., Birmingham .. ..                                                 | 51 & 52                     | Battery, Selly Oak               |                      |
| 1 16 Birmingham Railway Carriage & Wagon Co., Ltd., The { Smethwick 296 }<br>Smethwick, Birmingham .. .. | Four Lines                  | Carriage, Smethwick, Birming-    |                      |
| 1 2 3 4 Blackstone & Co., Ltd., Rutland Works, Stamford .. ..                                            | 307 & 308                   | Blackstone, Stamford             |                      |
| 1 Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow [Govan 262                               |                             | Blairon, Glasgow                 |                      |
| 1 4 16 27 33 Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks .. ..                      | Private Branch Exchange 228 | Blakeboroughs, Brighouse         |                      |
| Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, B. .. ..            | East 29                     | Blundell, Pop., London           |                      |
| Bodley Bros. & Co., Old Quay Foundry, Exeter .. ..                                                       | 189                         | Bodley, Exeter                   |                      |
| 1 2 4 16 Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C.2 .. ..                                       | Central 632                 | Wiredrawn, Led., London          |                      |
| 1 3 Booth John, & Sons, Hulton Steel Works, Bolton .. ..                                                 | Bolton 1195                 | Irony, Bolton                    |                      |
| 1 3 Booth Joseph, & Bros., Union Ironworks, Rodley, Leeds [Stanningley 20                                |                             | Cranes, Rodley                   |                      |
| Boston Scale & Machine Co., Boston, Mass., U.S.A.                                                        | Roxbury 5200                | 100, Ruggles St., Roxbury, Mass. |                      |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union. 27 Marconi Wireless. 33 Bentley's. 37 General.

| NAME AND ADDRESS OF ADVERTISER. |                                                                                                      | TELEPHONE NUMBER.      | TELEGRAPHIC ADDRESS.          |
|---------------------------------|------------------------------------------------------------------------------------------------------|------------------------|-------------------------------|
| 1                               | Boulton & Paul, Ltd., Norwich .. .. .                                                                | Norwich 851<br>5 Lines | Boulton, Norwich              |
| 1 16                            | Boving & Co., Ltd., 56, Kingsway, W.C. 2 .. ..                                                       | Holborn 6420           | Jenotien, Phone, London       |
|                                 | Bowran, Robert, & Co., Ltd., 4, St. Nicholas Buildings,<br>Newcastle-on-Tyne .. .. .                 | National 1780          | Bowran, Newcastle-on-Tyne     |
|                                 | Braby Fred., & Co., Ltd., Fitzroy Wks., 352-364, Buxton<br>Rd., N.W. 1 .. .. .                       | Museum 3033            | Courteous, Eusroad, London    |
| 1                               | Bradley & Co., Ltd., Bilston .. .. .                                                                 | Bilston 25             | Galvank, Bilston              |
| 1 2 3                           | Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield .. ..                                     | 3                      | Craven, Wakefield             |
|                                 | Bradley & Foster, Ltd., 105, Colmore Row, Birmingham .. ..                                           | Central 1287           | Steelmeets, Birmingham        |
| 1                               | Bradley & Turton, Ltd., Caldwell Foundry, Kidderminster .. ..                                        | 117                    | Wheels, Kidderminster         |
| 1 5 20                          | Bradley Pulverizer Co., 37, Walbrook, B.C. .. ..                                                     | London Wall 707        | Equestrian, London            |
|                                 | Bralme T. F., & Co., Ltd., Hunslet, Leeds .. ..                                                      | 1767                   | Bralme, Hunslet, Leeds        |
| 1 33                            | Braithwaite & Co., 117, Victoria St., S.W. 1 .. ..                                                   | Victoria 8573          | Bromkirk, Sowest, London      |
|                                 | Brampton Bros., Ltd., Birmingham .. .. .                                                             | East 185 & 186         | Brampton, Birmingham          |
| 1 2                             | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell .. ..                                   | 11                     | Gilder, Motherwell            |
| 1                               | Brecknell, Munro & Rogers, Ltd., Thrissell St., Bristol .. ..                                        | 3137, 3138             | Brecknell, Bristol            |
| 1 6                             | Brett's Patent Lifter Co., Ltd., Coventry .. ..                                                      | 384                    | Lifter, Coventry              |
|                                 | Brett's Stamping Co., Ltd., Harnall Lane, Coventry .. ..                                             | 168                    | Brett's, Coventry             |
| 1 3 16                          | Bridge David, & Co., Ltd., Castleton, Manchester .. ..                                               | Rochdale 25            | Castleton, Manchester         |
| 1                               | Brightside Foundry & Engineering Co., Ltd., Sheffield .. ..                                          | 863                    | Castings, Sheffield           |
| 1                               | Briquette Machinery, Ltd., Charnmouth St., Leeds .. ..                                               | Central 4590           | Briquette, Leeds              |
| 1 5 11                          | Bristol Pneumatic Tools, Ltd., 140, Victoria St., Bristol [Bristol 1312                              |                        | Percession, Bristol           |
| 1 4 16                          | British Aluminium Co., Ltd., 109, Queen Victoria St., B.C. 4 City 2676                               |                        | Cryolite, Cent., London       |
|                                 | British Chemical Ware Manufacturers Association, Ltd., 51, Lin-<br>coln's Inn Fields, W.C. 2 .. .. . | Holborn 5515           | —                             |
|                                 | British Commercial Gas Association, 47, Victoria St., S.W. Victoria 2200                             |                        | Gasupreme, London             |
| 1 16                            | British Electric Plant Co., Ltd., 66, Garrick St., Glasgow Central 5724-5                            |                        | Bepece, Glasgow               |
| 1 2 3 4 16                      | British Everite & Asbestillite Works, Ltd., 29, Peter St.,<br>Manchester .. .. .                     | City 7790              | Everite, Manchester           |
| 1                               | British Fibrocement Works, Erith, Kent .. ..                                                         | Erith 89               | Fibrocemen, Erith, Kent       |
| 1                               | British Fire Appliances Co., Ltd., 109, Victoria St., S.W. 1 Victoria 7003                           |                        | Nonacid, Sowest, London       |
|                                 | British Insulated & Helsby Cables, Ltd., Prescott, Lancs. .. Prescott 71                             |                        | Insulator, Prescott           |
| 16                              | British Lighting & Ignition Co., Ltd., Blic Works, Cheston Rd.,<br>Aston, Birmingham .. .. .         | Bast 340               | Vicksmag, Phone, Birmingham   |
| 1 16                            | British L.M. Ericsson Mfg. Co., Ltd., 60 Lincoln's Inn Fields,<br>W.C. 2 .. .. .                     | Holborn 5340           | Ericsson, Fleet, London       |
| 1 27                            | British Motor Trading Corporation, Ltd., 50, Pall Mall, S.W. Gerrard 8800                            |                        | Erimotrade, Charles, London   |
| 1                               | British Niclausse Boiler Co., Ltd., The Clock House, Arundel<br>Street, Strand, W.C. 2 .. .. .       | Central 294            | Britniclaus, Westrand, London |
| 1                               | British Nu-Tal Co., 18, Princes St., W. 1 .. ..                                                      | Mayfair 772            | Nu-Tallon, London             |
| 27                              | British Oil Products Co., Ltd., Townmill Rd., Dennistoun,<br>Glasgow .. .. .                         | Bridgetoun 365         | Flashpoint, Glasgow           |
|                                 | British Oxygen Co., Ltd., Elverton St., S.W. .. ..                                                   | Victoria 4706          | Brins Oxygen, London          |
| 1                               | British Piston Ring Co., Ltd., Holbrook Lane, Coventry [Coventry 1214                                |                        | Pistorings, Coventry          |
| 1 16 27                         | British Rawhide Belting Co., Ltd., Hhtye Rd., Willesden,<br>N.W. 10 .. .. .                          | Willesden 1105         | Toughness, Phone, London      |
|                                 | British Reinforced Concrete Engineering Co., Ltd., 1, Dickinson<br>St., Manchester .. .. .           | City 8430              | Astragal, Manchester          |
|                                 | British Rolling Mills, Ltd., Cliveland St., Birmingham [Central 1869 & 1870                          |                        | Octagon, Birmingham           |
|                                 | British Ropeway Engineering Co., Ltd., 7, Mincing Lane, B.C. 3<br>Central 11250                      |                        | Boxhauling, Fen., London      |
|                                 | British Steam Specialties, Ltd., Bedford St., Leicester .. ..                                        | Central 1065           | Boas, Leicester               |
| 4                               | British Thomson-Houston Co., Ltd., Rugby .. ..                                                       | 54                     | Asteroidal, Rugby             |
|                                 | British Time Recorder Co., Ltd., 149, Farringdon Rd., E.C. 1 City 3137                               |                        | Bezarcel, Phone, London       |

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|-------------------------------------------------------------------------------------------|------------------------------|-------------------------------|
| British Vacuum Cleaner Co., Ltd., Parson's Green Lane, S.W. . . . .                       | { Putney 2470<br>Two Lines } | Vacuumiser, Walgreen, London  |
| Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire . .                            | 48                           | Ngot, Briton Ferry            |
| 4 Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield . .                            | 1581                         | Broadbent, Huddersfield       |
| 1 Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet, Birmingham . . . . .           | .. Victoria 551              | Saws, Birmingham              |
| Brookes & Adams, 250-252, Barr St., Hockley, Birmingham . . . . .                         | North 23                     | Teleba, Birmingham            |
| Broom & Wade, Ltd., High Wycombe . . . . .                                                | 245 & 246                    | Broom, High Wycombe           |
| 1 Brotherhood Peter, Ltd., Peterborough . . . . .                                         | Peterborough 76              | Brotherhood, Peterborough     |
| Broughton Copper Co., Ltd., 6, Broad St. Place, E.C. . .                                  | Central 6589                 | Copper Co., London            |
| Broughton Copper Co., Ltd., Manchester . . . . .                                          | Central 6907                 | Copper Co., Manchester        |
| 13 Browett, Lindley & Co., Ltd., Patricroft, Manchester . .                               | Eccles 510                   | Sandon, Patricroft            |
| 1 Brown Bayley's Steel Works, Ltd., Sheffield . . . . .                                   | Central 82                   | Bayley, Sheffield             |
| 14 Brown David, & Sons (Huddersfield), Ltd., Park Works, Lockwood, Huddersfield . . . . . | { 1080<br>Three Lines }      | Gearing, Huddersfield         |
| Brown, Herbert, 51 Charles St., Cardiff . . . . .                                         | —                            | Emergency, Cardiff            |
| 23415 Brown Hoisting Machinery Co., Cleveland, Ohio, U.S.A. . .                           | —                            | Brownhoist, Cleveland, U.S.A. |
| Brown John, & Co., Ltd., Sheffield . . . . .                                              | .. Central 29                | Atlas, Sheffield              |
| Brown, Lenox & Co. (London), Ltd., Millwall, B. . . . .                                   | .. East 700                  | Lenox, Millwall               |
| 5 Brown W. B., & Co. (Bankhall), Ltd., Bankhall, Liverpool { Bootle 213 & 445             | .. Eddy 2240                 | Vkes, Liverpool               |
| 3163 Browning Co., Cleveland, Ohio, U.S.A. . . . .                                        | .. Eddy 2240                 | Browning, Cleveland           |
| Browlie & Green, Ltd., Church St., Cheetham, Manchester                                   | Cheetham Hill 38             | Analytical, Manchester        |
| 1 Brundrit Joseph, 14, Water St., Liverpool . . . . .                                     | Central 439                  | Segment, Liverpool            |
| Brunton & Trier, 36, Victoria St., S.W.1 . . . . .                                        | .. Victoria 900              | Viscosity, Vic., London       |
| 1163 Brush Electrical Engineering Co., Ltd., Loughborough, Leicestershire . . . . .       | .. Loughborough 624          | Falcon, Loughborough          |
| 1416 Buck & Hickman, Ltd., 2 & 4, Whitechapel Rd., E.1 . .                                | Avenue 7540                  | Koebeck, Phone, London        |
| 12 Buckton, Joshua, & Co., Ltd., Leeds . . . . .                                          | Leeds 20585                  | Buckton, Leeds                |
| Bucyrus Co., Idlesleigh House, Caxton St., S.W.1 . . . . .                                | .. Victoria 4340             | Westcelite, London            |
| 13 Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester                                  | Altrincham 840               | Budenberg, Altrincham         |
| Budgett H. M., Crown Works, Chelmsford . . . . .                                          | .. 224                       | Budgett, Chelmsford           |
| 33 Buhring's Patent Water Purifying Co., 146A, Queen Victoria Street, E.C. . . . .        | Central 1294                 | Aquapurea, Cent., London      |
| 4 Bullard Machine Tool Co., Conn., U.S.A. . . . .                                         | —                            | Bullard, Bridgeport           |
| Bullivant & Co., Ltd., 72, Mark Lane, E.C. . . . .                                        | Avenue 2100                  | Bullivants, Fen., London      |
| Bull's Metal & Mould Co., Ltd., Yoker, nr. Glasgow . .                                    | Clydebank 182                | Meloid, Yoker                 |
| 113 Burchhardt Engineering Works, 26, Victoria St., S.W.1 .                               | .. Victoria 1872             | Notoburk, Vic., London        |
| 12411 Burmeister & Wain's, Ltd., Copenhagen C., Denmark                                   | 9870 & 3225                  | Burmeksters, Copenhagen       |
| Burton, Deilingpole & Co., Moseley St., Birmingham . . . .                                | Midland 2573 & 2574          | Deilingpole, Birmingham       |
| 14 Burton, Griffiths, & Co., Ltd., 64 to 70, Vauxhall Bridge Rd., S.W.1 . . . . .         | .. Victoria 6747             | Calderon, Churton, London     |
| Butcher Henry, & Co., 63-64, Chancery Lane, W.C.2 . . . .                                 | Holborn 2295                 | Pemetracry, Holborn, London   |
| 14 Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax .                           | 1013                         | Butler, Halifax, England      |
| 1 Butler Jones (Nameplates), Ltd., Dartmouth Works, Forest Hill, S.E.23 . . . . .         | .. Sydenham 346              | Bronplat, Forest, London      |
| 1 Butler Samuel, & Co., Ltd., Stanningley, near Leeds . . .                               | Stanningley 119              | Lifting, Stanningley          |
| Butterfield W. P., Ltd., Shipley, Yorks, England . . . . .                                | .. Shipley 35                | Tanks, Shipley                |
| 16 Butterley Co., Ltd., Derby . . . . .                                                   | .. Ripley 75 & 76            | Ironworks, Butterley          |
| Butterworth Bros., Ltd., Newton Heath Glass Wks., Manchester                              | Failsworth 22                | Glasses, Newton Heath         |
| 41633 Buyers of Scrap Metal, Ltd., Glyn St., Vauxhall, S.E.11 .                           | .. Hop 4520                  | Scrabvau, Vaux., London       |

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11 Scott's. 13 Watkin's. 15 Atlantic Cable. 16 Western Union. 33 Bentley's.

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|--------------------------------------------------------------------------------------------------------|--|--------------------------------------|-----------------------------|
| Caird & Rayner, 777, Commercial Rd., Limehouse, E. ..                                                  |  | East 210                             | Vaporise, London            |
| Calders, Ltd., 10A, George St., Edinburgh .. ..                                                        |  | Central 1212                         | Rediac, Edinburgh           |
| 1 Caledonian Telephone (New System) Co., Ltd., 62-64, Robert-<br>son St., Glasgow .. ..                |  | Central 1434                         | Indicator, Glasgow          |
| 1 16 Cambridge & Paul Instrument Co., Ltd., Cambridge .. ..                                            |  | .. Camba. 615                        | Instrument, Cambridge       |
| 1 Cameron John, Ltd., Oldfield Rd. Ironworks, Salford ..                                               |  | Central 2902                         | Original, Manchester        |
| 1 2 Cammell Laird & Co., Ltd., Cyclops Steel & Ironwks, Sheffield                                      |  | Central 3800                         | Cammellaird, Sheffield      |
| 1 3 Campbell & Calderwood, Soho Works, Paisley, Scotland ..                                            |  | .. 2754                              | Soho, Paisley               |
| Campbell & Isherwood, Ltd., Bootle, nr. Liverpool ..                                                   |  | Bootle 1474                          | Pressure, Liverpool         |
| 1 3 4 6 Campbell Gas Engine Co., Ltd., Halifax, England .. ..                                          |  | .. 92                                | Camgas, Halifax             |
| Campbells & Hunter, Ltd., Dolphin Foundry, Leeds ..                                                    |  | .. Central 768                       | Dolphin, Leeds              |
| 16 Cape Asbestos Co., Ltd., 23, King St., E.C. 2 .. ..                                                 |  | City 3086 & 598                      | Incorrupt, Cent., London    |
| 16 Carbon Steel Co., Pittsburgh, Penna., U.S.A. .. ..                                                  |  | .. Grant 6400                        | Carbon, Pittsburgh, U.S.A.  |
| 1 4 16 Carborundum Co., Ltd., Trafford Park, Manchester                                                |  | Trafford Park 600 & 601              | Carborund, Manchester       |
| 1 16 Carols Diesel & Steam Engines (London), Ltd., Carlton<br>House, Regent St., S.W. 1 .. ..          |  | Regent 2484                          | Dieselsen, Piccy., London   |
| Carron Company, Carron, Stirlingshire .. ..                                                            |  | Falkirk 37                           | Carronade, Falkirk          |
| 1 6 Carruthers J. H., & Co., Ltd., Polmadie Ironwks., Glasgow [Queens Park 36                          |  | Leeds 24179                          | Holsting, Glasgow           |
| Cawood G. R., & Co., 4, South Parade, Leeds .. ..                                                      |  | Leeds 24179                          | Ransford, Leeds             |
| Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle,<br>Lancs. .. ..                             |  | Bootle 1170                          | Chadburn, Liverpool         |
| 1 Chalmers Wm., & Co., Ltd., Rutherglen, Scotland .. ..                                                |  | Rutherglen 459                       | Scow, Rutherglen            |
| 1 Chambers, Scott & Co., Ltd., Motherwell .. ..                                                        |  | .. 63                                | Energy, Motherwell          |
| Chaplin Alex., & Co., Ltd., Govan, Glasgow .. ..                                                       |  | .. Govan 154                         | Chaplin, Glasgow            |
| Chapman & Hall, Ltd., 11, Henrietta St., W.C. .. ..                                                    |  | Gerrard 2711                         | Pickwick, Rand, London      |
| 1 Chatwin Thos., Ltd., Great Tindal St., Birmingham ..                                                 |  | Midland 1790                         | Chatwin, Birmingham         |
| 1 Chesterfield Tube Co., Ltd., Chesterfield .. ..                                                      |  | Chesterfield 61                      | Tubes, Chesterfield         |
| 1 4 16 33 Church Street Machinery & Engineering Corporation, 30, Church<br>St., New York, U.S.A. .. .. |  | —                                    | Casmeco, New York           |
| 1 4 Churchill Chas. & Co., Ltd., 9 to 15, Leonard St.,<br>Finsbury, B.C. .. ..                         |  | { London Wall 2926<br>Central 2974 } | Opedoloe, London            |
| Cie des Moteurs "National," 32, Rue des Mathurins, Paris ..                                            |  | Central 18.39                        | Motogas, Paris              |
| 1 Citroën Gear Co., Ltd., 22, Buckingham Gate, S.W. 1 ..                                               |  | Victoria 7193                        | Helical, Sowest, London     |
| 4 Clark George & Sons (Hull), Ltd., Waterhouse Lane, Hull ..                                           |  | 5003                                 | Clark, Hull                 |
| 12346 } Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne {                                               |  | Central 1070 & 1073<br>City 137 }    | Cyclops, Gateshead          |
| 131624 }                                                                                               |  |                                      |                             |
| 1 Clarke's Crank & Forge Co., Ltd., Lincoln .. ..                                                      |  | .. 406                               | Cranks, Lincoln             |
| Clay Cross Co., Ltd., Clay Cross, near Chesterfield .. ..                                              |  | .. 479                               | Jackson, Clay Cross         |
| 1 6 Clayton & Co. (Huddersfield), Ltd., Karrier Works, Hudders-<br>field .. ..                         |  | 1441 & 1443                          | Karriakar, Huddersfield     |
| Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds ..                                            |  | 543 & 543                            | Gas, Leeds                  |
| Clayton Valve Co., Ltd., Preston Old Rd., Blackpool ..                                                 |  | Blackpool 925                        | Clavaleco, Blackpool        |
| 1 2 6 Clayton Wagons, Ltd., Abbey Works, Lincoln .. ..                                                 |  | Lincoln 650                          | Abbey, Lincoln              |
| 1 16 Cleveland Bridge & Engineering Co., Ltd., Darlington ..                                           |  | .. 2710                              | Cleveland, Darlington       |
| 4 Clifton & Baird, Ltd., Empress Works, Johnstone, Scotland ..                                         |  | Johnstone 121                        | Empress, Johnstone          |
| Clifton & Waddell, Johnstone, near Glasgow .. ..                                                       |  | .. 23                                | Cliffell, Johnstone         |
| Clyde Nail Co., Ltd., Newton, nr. Glasgow .. ..                                                        |  | Cambuslang 17 & 18                   | Clyde, Haiside, Lanarkshire |
| Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun,<br>Glasgow .. ..                      |  | .. Hillhead 2952                     | Corrugated, Glasgow         |
| 1 Clyde Engineering Co., Ltd., 94, Market St., Manchester ..                                           |  | City 4070                            | Modernize, Manchester       |
| 4 Coats Machine Tool Co., Ltd., 14, Palmer St., Westminster,<br>S.W. .. ..                             |  | .. Victoria 2518 & 1509              | Oolcomachi, Vic., London    |

Telegraphic Codes in use : 1 A.B.C. 2 A.I. 3 Engineering. 4 Lieber's. 6 Private  
13 Watkins. 16 Western Union. 24 Broomhall's. 33 Bentley's.

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|------------|----------------------------------------------------------------------------------------|-------------|-------------|----------------------------------|
| 1          | Cochran & Co. (Annan), Ltd., Annan, N.B.                                               | .. ..       | 2           | Multitube, Annan                 |
| 1 3 4 27   | Cochrane John (Barrhead), Ltd., nr. Glasgow                                            | .. Barrhead | 61 & 62     | Cochrane, Barrhead               |
| 1 3        | Cockburn A., & Co., Gateside St., Glasgow                                              | .. ..       | Bridgeton   | 3214 Pressure, Glasgow           |
|            | Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                                  | .. [Govan   | 361         | Cockburn, Glasgow                |
| 1 6        | Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                                   | .. ..       | [Bank       | 4909 Satisfactory, Liverpool     |
| 1 2 3 4 16 | Cole, Marchant & Morley, Ltd., Bradford                                                | .. ..       | Bradford    | 4744 Cole, Bradford              |
|            | Coles H. J., Ltd., London Crane Works, Derby                                           | .. ..       | Derby       | 1266 Coles, Derby                |
| 1          | Colley Engineering & Machinery Co., Clun House, 17, Surrey St., Strand, W.C.2          | .. ..       | City        | 2081 Nucleolus, Phone, London    |
|            | Collins & Co., Cheetham Hill, Manchester                                               | .. ..       | .. ..       | —                                |
| 1          | Coltman H., & Sons, Loughborough                                                       | .. ..       | .. ..       | 27                               |
| 1          | Coltman Walter W., & Co., Ltd., Central Boiler Wks., Loughborough                      | .. ..       | 51          | Coltmans, Loughborough           |
| 6 16       | Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 329, High Holborn, W.C.1 | .. ..       | Holborn     | 1562 Integral, Holborn, London   |
| 1 10       | Colville David, & Sons, Ltd., Dalzell Steel & Iron Works, Motherwell, near Glasgow     | .. ..       | Motherwell  | 9 Colville, Motherwell           |
| 1 10       | Colville David, & Sons, Ltd., 54, Old Broad St., E.C. London                           | .. ..       | Wall        | 1469 Colville, London            |
|            | Compendium Publishing Co., 93-94, Chancery Lane, W.C.2                                 | .. ..       | Holborn     | 1768 —                           |
| 1 33       | Consolidated Brake & Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W.1        | .. ..       | Victoria    | 3987 Vacuo, Vic., London         |
| 1 4 16 33  | Consolidated Construction Co., Ltd., 9, Cloak Lane, Cannon St., E.C.4                  | .. ..       | City        | 8176 Solconstru, Cannon, London  |
| 1 4 6 33   | Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly, W.1            | .. ..       | Gerrard     | 9215 Caulking, Piccy., London    |
|            | Constable A., & Co., Ltd., 10, Orange St., Leicester Sq., W.C. [Central                | .. ..       | 12432       | Dhagoba, Westrand, London        |
| 27 33      | Constructional Engineering Co., Ltd., Charles Henry St., Birmingham                    | .. ..       | Midland     | 2182 Structural, Birmingham      |
|            | Conveyor & Elevator Co., Accrington, Lancashire                                        | .. ..       | 2779        | Conveyor, Accrington             |
| 1 3 4 16   | Cooke E. J., Trinity Leather Works, Blackfriars, Manchester                            | .. ..       | Central     | 1544 Hides, Manchester           |
|            | Cooke James, & Son, 8 & 9, Wrentham Street, Birmingham                                 | .. ..       | [Mid.       | 1611 Horelogy, Birmingham        |
| 1          | Cooke T., & Sons, Ltd., Buckingham Works, York                                         | .. ..       | 310         | Coordinate, York                 |
|            | Cousland A., & Son, 3, Mitchell St., Glasgow                                           | .. ..       | City        | 7532 Screened, Glasgow           |
| 1 4 16 27  | Coventry Chain Co., Ltd., Coventry                                                     | .. ..       | 830         | Chains, Coventry                 |
| 1 13 27    | Coventry Ordnance Works, Ltd., Coventry                                                | .. ..       | Coventry    | 1201 Ordnance, Coventry          |
| 1 2        | Cowans, Sheldon & Co., Ltd., Carlisle                                                  | .. ..       | 13          | St. Nicholas, Carlisle           |
|            | Craddock Walter, 17 & 19, Brook St., London Rd., Manchester                            | .. ..       | .. ..       | —                                |
| 1 2        | Cradley Boiler Co., Ltd., Cradley Heath, Staffordshire                                 | .. ..       | Cradley     | 53 Boiler, Cradley Heath         |
|            | Craddock Geo., & Co., Ltd., Wire Rope Works, Wakefield                                 | .. ..       | Central     | 466 Craddock, Wakefield          |
| 1 4 16 20  | Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley                             | .. ..       | 2191 & 2192 | Craig, Paisley                   |
|            | Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.                                    | .. ..       | 15          | Craig-Donald, Johnstone          |
| 1 6 27     | Crane-Bennett, Ltd., 45-57, Leman St., E.1                                             | .. ..       | Avenue      | 8062-5 Spruceness, Phone, London |
|            | Craven Brothers (Manchester), Ltd., Vauxhall Works, Reddish, Stockport                 | .. ..       | Heaton Moor | 421 Craven, Reddish              |
| 1          | Cresswells' Ltd., Wellington Mills, Bradford                                           | .. ..       | 950         | Asbestos, Bradford               |
| 1 16 33    | Crittall Manufacturing Co., Ltd., Braintree, England                                   | .. ..       | Braintree   | 106 Crittall, Braintree          |
| 1 27       | Crookatt Wm., & Sons, Ltd., 64, Darnley St., Glasgow [Pollockshields                   | .. ..       | 357         | Ingenuity, Glasgow               |
| 1 3 4 33   | Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorks.                                  | .. ..       | 4901        | Crofters, Bradford               |
|            | Crosby Valve & Engineering Co., Ltd., 41-42, Foley St., W.1                            | .. ..       | Museum      | 4343 Crosby, London              |
| 2 3 4 16   | Crossley Bros., Ltd., Openshaw, Manchester                                             | .. ..       | City        | 4200 Otio, Manchester            |

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33 Bentley's.

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|-------------------------------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------|
| Crossley H. & P., and Ackroyd, Mytholmroyd, Yorks.                      |                                                                              | .. —                                  | Frecklen, Mytholmroyd                      |
| 1                                                                       | Crowther & Osborn, Ltd., 7, Blackfriars St., Salford ..                      | .. City 7207                          | Crandos, Manchester                        |
| 1 16                                                                    | Culrass Products, Ltd., 69, Victoria St., Westminster, S.W.1                 | Victoria 5419                         | Kwerasspro, London                         |
|                                                                         | Cuffin W. H., North Evington, Leicester .. ..                                | Central 2037                          | Cuffin, Leicester                          |
| 4 6 16                                                                  | Cushman Chuck Co., Hartford, Conn., U.S.A. .. ..                             | .. —                                  | Cushman, Hartford                          |
| 1 Dalglish, A. & W., West of Scotland Boiler Works, { Pollokshaws 141 } |                                                                              | Queen Park 261                        | Evaporate, Pollokshaws                     |
|                                                                         | Pollokshaws, Glasgow .. ..                                                   | .. —                                  | Dangerfield, Goldthorn Hill, Wolverhampton |
|                                                                         | Dangerfield, W. & J., Goldthorn Hill, Wolverhampton .. ..                    | .. —                                  | Daniell, Birmingham                        |
| 1                                                                       | Daniell S. A., Ltd., Edward St., Parade, Birmingham ..                       | Central 5045                          | Daniels, Stroud                            |
| 1                                                                       | Daniels T. H. & J., Ltd., Stroud, Glos. .. ..                                | .. Stroud 42                          | Danks, Netherton, Dudley                   |
| 1                                                                       | Danks H. & T., (Netherton), Ltd., Netherton, Dudley ..                       | .. Cradley 25                         | Carbide, Newcastle-on-Tyne                 |
| 1                                                                       | Dargue Acetylene Gas Co., Ltd., Grey St., Newcastle-on-Tyne .. ..            | Central 227                           | Forge, Darlington                          |
| 1 4 16                                                                  | Darlington Forge, Ltd., Albert Hill, Darlington .. ..                        | .. 2610                               | Humidity, Bradford                         |
| 1                                                                       | Davenport Engineering Co., Ltd., Harris Street, Bradford [Bradford 3553      | .. 53                                 | Faxman, Colchester                         |
| 2 3 5 6                                                                 | Davey, Faxman & Co., Ltd., Standard Ironworks, Colchester ..                 | [Gerrard 6850                         | Faxman, Phone, London                      |
| 2 3 5 6                                                                 | Davey, Faxman & Co., Ltd., Central House, Kingsway, W.C.2                    | .. 327                                | Shrocco, Belfast                           |
| 3 4 16                                                                  | Davidson & Co., Ltd., Sirocco Engineering Works, Belfast                     | Ulster District, N. T. Co., Ltd., 327 | Katchel, Glasgow                           |
|                                                                         | Davie Bros., Ltd., Glasgow .. ..                                             | Central 1908                          | Erkhaust, Romiley                          |
|                                                                         | Davies & Metcalfe, Ltd., Romiley, Manchester .. ..                           | Stockport 2219                        | Rapideling, London                         |
|                                                                         | Davis B. J., Great Eastern Rd., Stratford, E. 15                             | Stratford 736 & 737                   | Castings, Luton                            |
|                                                                         | Davis Furnace Company, Diamond Foundry, Luton, Beds.                         | Luton 260                             | Etna, Leith                                |
| 1                                                                       | Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh ..                      | .. Leith 634                          | Motor, Sheffield                           |
| 1 16                                                                    | Davy Brothers, Ltd., Sheffield .. ..                                         | .. 4800                               | Pumps, Clydebank                           |
|                                                                         | Dawson & Downie, Ltd., Elgin Wks., Clydebank, Scotland [Clydebank 92         | .. 377                                | Dawsons, Lincoln                           |
| 1 16 27 33                                                              | Dawson James & Son, Ltd., Boulton Works, Lincoln .. ..                       | Lincoln 48                            | Day Summers, Southampton                   |
|                                                                         | Day, Summers & Co., Ltd., Northam Ironworks, Southampton                     | .. 6178                               | Avaltur, Westcent, London                  |
| 1 6                                                                     | De Laval Steam Turbine Co., 150, Southampton Row, W.C.                       | [Museum 6178                          | Desoroco, Birmingham                       |
|                                                                         | Deloro Smelting & Refining Co., Ltd., 174, Corporation St., Birmingham .. .. | .. —                                  | Delta, Eastgren., London                   |
| 1                                                                       | Delta Metal Co., Ltd., East Greenwich, S.E. .. ..                            | Greenwich 123                         | Extrusion, Birmingham                      |
| 1                                                                       | Delta Metal Co., Ltd., Dartmouth St., Birmingham ..                          | Central 3206                          | Dempster, Glasgow                          |
|                                                                         | Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow                      | Argyle 505                            | Denwater, Vic., London                     |
| 4                                                                       | Denison, Saml., & Son., Ltd., 28, Victoria St., S.W.1                        | Victoria 1883                         | Forge, Dumbarton                           |
|                                                                         | Dennytown Forge Co., Dumbarton .. ..                                         | .. 56                                 | Guttaporeha, Glasgow                       |
| 1 4 33                                                                  | Dick R. & J., Ltd., Greenhead Works, Glasgow .. ..                           | Bridgeton 2534                        | Enterprise, Birkenhead                     |
| 1                                                                       | Dickie Geo., & Sons, Chester St., Birkenhead .. ..                           | Birkenhead 250                        | Endaxle, London                            |
| 1 16                                                                    | Dissolved Acetylene Co., Ltd., 268 & 270, South Lambeth Rd., S.W.8 .. ..     | { Brixton 2171-4 }                    | .. Four Lines                              |
|                                                                         | Dixon Geo. N., & Co., 41, Castle St., Liverpool .. ..                        | .. Bank 3853                          | Tenackty, Liverpool                        |
| 1 16 33                                                                 | Dixon Joseph, Crucible Co., 28, Victoria St., S.W. 1                         | Victoria 1754                         | Crucigraph, Vic., London                   |
| 1 6                                                                     | Dixon's White, Ltd., Albion Wharf, Bow, E. .. ..                             | .. East 1246                          | Dryolene, Bochurch, London                 |
|                                                                         | Dobbie, McInnes, & Clyde, Ltd., 57, Rothwell St., Glasgow                    | Central 2912                          | Compass, Glasgow                           |
|                                                                         | Domillon Malleable, Ltd., Etna Works, Smethwick ..                           | Smethwick 289                         | Castings, Smethwick                        |
| 2 3                                                                     | Donkin Co., Ltd. (The Bryan), Chesterfield .. ..                             | .. 84                                 | Donkin, Chesterfield                       |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private. 8 International. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

## NAME AND ADDRESS OF ADVERTISER.

TELEPHONE  
NUMBER.

## TELEGRAPHIC ADDRESS.

|                                                                         |                                                                                    |                          |                                     |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------|-------------------------------------|
| 1 2 3 20                                                                | Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.                          | 105                      | Douglas, Kirkcaldy                  |
| 1                                                                       | Douglas Lawson & Co., Birstall, near Leeds .. ..                                   | Batley 135               | Pulleys, Birstall                   |
|                                                                         | Downton, J., & Co., Ltd., Hamilton, Scotland ..                                    | Hamilton 29              | Pumps, Hamilton                     |
|                                                                         | Dowson & Mason Gas Plant Co., Ltd., 36, Victoria St., S.W. [Mayfair                | 6908                     | Gaseous, London                     |
|                                                                         | Dowson & Mason Gas Plant Co., Ltd., Manchester ..                                  | Heaton Moor 39           | Gasify, Levenshulme                 |
|                                                                         | Doxford William, & Sons., Ltd., Sunderland .. ..                                   | 412-414                  | Doxford, Sunderland                 |
| 1                                                                       | Drum Engineering Co., Ltd., 28, Humbolt St., Bradford ..                           | 2358                     | Drum, Bradford                      |
|                                                                         | Drummond Brothers, Ltd., Bagel Works, near Guildford ..                            | 153                      | Lathes, Stoughton                   |
| 1 3 4                                                                   | Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow                             | Glasgow 111              | Bonaccord, Glasgow                  |
|                                                                         | Dublin Dockyard Co., Ltd., North Wall, Dublin .. ..                                | 23 & 24                  | Dockyard, Dublin                    |
|                                                                         | Dudbridge Iron Works, Ltd., Stroud, Gloucestershire ..                             | Stroud 137               | Iron, Calnesross                    |
| 1                                                                       | Dunkerley C. C., & Co., Ltd., Store St., Manchester                                | Central 6490-5           | Ajax, Manchester                    |
|                                                                         | Dunlop & Ranken, Ltd., 47, Water Lane, Leeds ..                                    | Leeds 20477              | Sections, Leeds                     |
| 4 33                                                                    | Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham .. ..                 | East 920                 | Covers, Birmingham                  |
| East Ferry Road Eng. Works Co., Ltd., Millwall, B. 14 .. .. East 3848-9 |                                                                                    |                          |                                     |
| 1                                                                       | Edmeston Archibald, & Sons, Ltd., Patricroft, nr. Manchester                       | Central 3266             | Edmeston, Patricroft                |
| 1 27                                                                    | Electrical Apparatus Co., Ltd., South Lambeth Rd., S.W. 8 [Brixton                 | 2074                     | Elnapatus, Vaux., London            |
| 1 2 4 16                                                                | Electric Construction Co., Ltd., 9, New Broad St., E.C. 2                          | Central 10920            | Concordance, Ave., London           |
|                                                                         | Electric Control, Ltd., Bridgeton, Glasgow .. ..                                   | Bridgeton 298 & 299      | Control, Glasgow                    |
|                                                                         | Electrode Co. of Sheffield, Ltd., Wincobank, Sheffield ..                          | Rotherham 483            | Electrodes, Rotherham               |
| 1                                                                       | Electro-Mechanical Brake Co., Ltd., Eagle Works, West Bromwich .. ..               | West Bromwich 291        | Brakes, West Bromwich               |
| 1 16                                                                    | Electro-Metals, Ltd., Imperial Buildings, 56, Kingsway, W.C.2 .. ..                | Holborn 6420             | Processes, Westcent, London         |
|                                                                         |                                                                                    | Three Lines              |                                     |
| 1                                                                       | Electromotors, Ltd., Openshaw, Manchester .. ..                                    | Central 7094             | Magnet, Manchester                  |
| 1                                                                       | Electromotors, Ltd., 49, Queen Victoria St., E.C. ..                               | City 5370                | Orders, Cannon, London              |
|                                                                         | Elliot George, & Co., Ltd., 16, Great George St., S.W.                             | Victoria 897             | Elliot Company, London              |
|                                                                         | Elliot George, & Co., Ltd., Cardiff .. ..                                          | 175                      | Elliot Company, Cardiff             |
| 4 6 16 27                                                               | Ellison George, Perry Bar, Birmingham .. ..                                        | Northern 740             | Induction, Birmingham               |
|                                                                         | Ellison W. T., & Co., Ltd., Irlams-o'-th'-Height, Manchester .. ..                 | Pendleton 30             | Ellisons Ltd., Irlams-o'-th'-Height |
| 1 4                                                                     | Elliston, Evans & Jackson, Ltd., 13, Cross St., Finsbury, E.C. 2                   | Clerkenwell, 1924 & 1925 | Elevanja, Finsquare, London         |
| 1                                                                       | Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W.1                          | Victoria 4951            | Empireste, Vic., London             |
| 1 16                                                                    | "Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.                            | Gerrard 3663 & 8598      | Engineering, Westrand, London       |
| 1                                                                       | Engineering Supplies, Ltd., Suffolk House, 5, Laurence Pountney Hill, E.C. 4 .. .. | City 2660                | Proells, Vic., London               |
| 1 4 16 33                                                               | English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C. 2                    | Holborn 830              | Enelectico, Westcent, London        |
|                                                                         |                                                                                    | Bolton 1399              | Foundry, Bolton                     |
| 1 4 16                                                                  | Escher, Wyss & Co., 20, Grosvenor Gardens, S.W.1 ..                                | Victoria 9120            | Eswysee, Sowest, London             |
|                                                                         | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton                          | 39                       | Evans, Wolverhampton                |
| 1 2 4 5 16                                                              | Everitt & Co., Ltd., 40, Chapel St., Liverpool .. ..                               | Central 2995             | Persikent, Liverpool                |
|                                                                         | Ewart Chainbelt Co., Ltd., Derby .. ..                                             | Derby 139                | Chainbelt, Derby                    |
|                                                                         | Expanded Metal Co., Ltd., York Mansions, York St., Westminster, S.W. .. ..         | Victoria 8809            | Distend, Vic., London               |
|                                                                         |                                                                                    | Two Lines                |                                     |

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6 Private. 16 Western Union. 20 McNeil's. 27 Marconi Wireless. 33 Bentley's.

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|--------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------|-------------------------------|
| Fairley James, & Sons, Ltd., Shadwell St., Birmingham              |                                                                              | Central 253                  | Fairley, Birmingham           |
| Farmer & Co., 150, St. John St., Clerkenwell, E.C.1                |                                                                              | City 3470                    | Lockstone-Smith, London       |
| 1                                                                  | Farrar Boiler Works, Ltd., Lincoln                                           | 406                          | Crank's, Lincoln              |
| 1 2 16 33                                                          | Fawcett, Preston & Co., Ltd., Liverpool                                      | Royal 1773, 2664             | Fawcett, Liverpool            |
| 1                                                                  | 27 Fellows Bros., Ltd., Cradley Heath, Staffs.                               | 35                           | Fellows, Cradley Heath        |
| 1                                                                  | Ferguson Brothers (Port Glasgow), Ltd., Port-Glasgow                         | 26                           | Dredger, Port-Glasgow         |
| Ferguson C. J., & Sons, Chiswell St., E.C.1                        |                                                                              | Central 6023 & 6446          | Jymotorsel, Finsquare, London |
| Ferodo, Ltd., Sovering Mills, Chapel-en-le-Frith                   |                                                                              | 19                           | Friction, Chapel-en-le-Frith  |
| 1 Fielding & Platt, Ltd., Atlas Works, Gloucester                  |                                                                              | 58                           | Atlas, Gloucester             |
| File Forge Co., Ltd., Kirkcaldy, Scotland                          |                                                                              | 16                           | File Forge, Kirkcaldy         |
| 4 29                                                               | Figee Ltd., Haarlem, Holland                                                 | —                            | Figee-Haarlem                 |
| Findlay Alex., & Co., Ltd., Motherwell, near Glasgow               |                                                                              | Motherwell 19                | Findlay, Motherwell           |
| Finney George, & Co., Berkley St., Birmingham                      |                                                                              | Midland 339 & 1970           | Yennall, Birmingham           |
| 4 16                                                               | Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield                          | Central 3230                 | Firth, Sheffield              |
| Firth Thos., & Sons, Ltd., 8, The Sanctuary, S.W.                  |                                                                              | Gerrard 5631                 | Mesmerie, London              |
| Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow           |                                                                              | Argyle 51                    | Firms, Glasgow                |
| 27 Fisher & Ludlow, Ltd., Rea St., Birmingham                      |                                                                              | Midland 413 & 414            | Tinmen, Birmingham            |
| Fleming & Ferguson, Ltd., Paisley, near Glasgow                    |                                                                              | 18                           | Phoenix, Paisley              |
| 1 2 3 4 16                                                         | Fletcher George, & Co., Ltd., Litchurch, Derby                               | Derby 817                    | Amarilla, Derby               |
| 1 16                                                               | Fletcher Malleable Foundries, Ltd., Litchurch Lane, Derby                    | [Derby 221                   | Foundries, Derby              |
| 1 Forbes Bros., Doe St., Birmingham                                |                                                                              | Central 857                  | Universe, Birmingham          |
| 1 2 3                                                              | Forth Shipbuilding & Engineering Co., Ltd., Govan, Glasgow                   | [Govan 452                   | Burnett, Glasgow              |
| Foster Brothers, Ltd., Wednesbury                                  |                                                                              | 9                            | Fosters, Wednesbury           |
| 1 Foster Instrument Co., Letchworth, Herts.                        |                                                                              | Letchworth 26                | Foster Instrument, Letchworth |
| 1 2 5                                                              | Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.                      | City 6506                    | Stampew, London               |
| 1 2 5                                                              | Fowler John, & Co. (Leeds), Ltd., Steam Plough Wks, Leeds                    | Central 513                  | Fowler, Leeds                 |
| France & Morgan, Whitefield Brass Wks., Govan, Glasgow             |                                                                              | Govan 469                    | France, Glasgow               |
| 1 4 6 16                                                           | Fraser & Chalmers Engineering Works, Erith, Kent                             | [Erith 168                   | Vanner, Erith                 |
| 1 2 33                                                             | Fraser Douglas, & Sons, Ltd., Westburn Foundry, Arbroath                     | 133                          | Fraser, Arbroath              |
| Friedenthal, Ltd., River Engine Works, Preston                     |                                                                              | 235                          | Screw, Preston                |
| Fry's Metal Foundry, 25-42, Holland St., Blackfriars, S.E.1        |                                                                              | Hop 4720                     | Frymetalos, Friars, London    |
| Fuller-Lehigh Co., Fullerton, Pa., U.S.A.                          |                                                                              | —                            | Carwheel                      |
| Fullio Pump Co., Cincinnati, Ohio, U.S.A.                          |                                                                              | —                            | Fullio, Cincinnati            |
| Fuller, Horsey, Sons & Cassell, 11, Billiter Sq., E.C.             |                                                                              | Avenue 3068                  | Fuller Horsey, London         |
| 1 3 16 27                                                          | Fullerton, Hodgari & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley | 2163                         | Vulcan, Paisley               |
| 2 3 4                                                              | Galloways, Ltd., Manchester                                                  | Central 6312-3-4             | Galloway, Manchester          |
| 1 3                                                                | Gardner L., & Sons, Ltd., Barton Hall Engine Works, Patricroft, Manchester   | { Eccles 401<br>Four Lines } | Theorem, Patricroft           |
| Gardner, T. J., Century Tool Works, Bristol                        |                                                                              | 2294                         | Tools, Bristol                |
| 1 Garrett R., & Sons, Ltd., Leiston Works, Suffolk                 |                                                                              | 16                           | Garrett, Leiston              |
| 1 Gartsherrie Engineering & Forge Co., 50, Wellington St., Glasgow |                                                                              | Central 2556                 | Forgings, Glasgow             |
| 12 4 6 16                                                          | General Electric Co., Ltd., Magnet House, Kingsway, W.C.2                    | Regent 7050                  | Electricity, Cent., London    |
| General Electric Review, 77, Upper Thames St., E.C.4               |                                                                              | —                            | —                             |
| Gibbins R. C., & Co., Berkley St., Birmingham                      |                                                                              | Midland 244                  | Gibbins, Birmingham           |
| Gibbons Bros., Ltd., Dibdale Works, Dudley, Worc.                  |                                                                              | Dudley 2450                  | Gibbons, Lower-Gornal         |
| 1 4 16 33                                                          | Gilbert Gilkes & Co., Ltd., Kendal, England                                  | Kendal 28                    | Gilkes, Kendal                |
| 1 2                                                                | Gilbertson W., & Co., Ltd., Pontardawe, near Swansea                         | 54                           | Gilson, Pontardawe            |

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## CODES, AND TELEPHONE NUMBERS.

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| NAME AND ADDRESS OF ADVERTISER.                                                 |                      | TELEPHONE NUMBER.               | TELEGRAPHIC ADDRESS. |
|---------------------------------------------------------------------------------|----------------------|---------------------------------|----------------------|
| Gillman Frank, 9, Westfield Rd., Birmingham                                     | Edgbaston 1081       | Rotherwood, Birmingham          |                      |
| Glasgow Iron & Steel Co., Ltd., Wishaw .. ..                                    | .. Wishaw 2          | Ingot, Wishaw                   |                      |
| Glasgow Railway Engineering Co., Ltd., Govan, Glasgow .. ..                     | .. Govan 53          | Expansion, Glasgow              |                      |
| 2 Glenfield & Kennedy, Ltd., Kilmarnock, N.B. .. ..                             | .. 28                | Glenfield, Kilmarnock           |                      |
| 1 4 Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W. [Victoria 2671 |                      | Pneumatoid, Vic., London        |                      |
| 1 4 Glover W. T., & Co., Ltd., Trafford Pk., Manchester .. ..                   | Manchester 7200      | Cables, Manchester              |                      |
| 1 4 Goodwin, Barsby & Co., Leicester .. ..                                      | Central 2134         | Goodwin, Ironfounder, Leicester |                      |
| 1 Govan Shafting & Engineering Co., Ltd., Govan, Glasgow .. ..                  | Govan 653 & 654      | Pedestal, Glasgow               |                      |
| 1 Grafton & Co., Bedford .. ..                                                  | .. —                 | Grafton, Bedford                |                      |
| 1 Grafton & Co., 120, Cannon St., E.C. .. ..                                    | .. —                 | Graftonian, London              |                      |
| 1 3 Grant, Ritchie & Co., Ltd., Kilmarnock .. ..                                | Kilmarnock 93        | Grant, Kilmarnock               |                      |
| Grantham Roller & Crank Co., Ltd., Grantham .. ..                               | .. —                 | Land Grantham                   |                      |
| 1 16 Graphite Products, Ltd., 218-220, Queen's Rd., S.W. 8                      | Battersea 227        | Lustroso, Phone, London         |                      |
| Graves & Co., Ltd., 14, Water St., Liverpool .. ..                              | .. —                 | Silica, Liverpool               |                      |
| Great Western Railway Co., Paddington Station, W. 2                             | Paddington 7000      | ..                              |                      |
| 1 Green & Boulding, Ltd., 28, New Bridge St., E.C. .. ..                        | Central 12453        | Temperature, London             |                      |
| Greenwood's Standard Gear Cutting Co., Ltd., New Bond St.,                      |                      |                                 |                      |
| Halifax .. ..                                                                   | .. 1212              | Gears, Halifax                  |                      |
| 1 Gresham & Craven, Ltd., Salford, Manchester .. ..                             | .. 613               | Brake, Manchester               |                      |
| Grice, Grice & Son, Ltd., Sheepcote St., Birmingham .. ..                       | Midland 23           | Grice, Birmingham               |                      |
| Grieve John, & Co., Motherwell, Scotland .. ..                                  | .. 56                | Grieve, Motherwell              |                      |
| Griffin Charles, & Co., Ltd., Exeter St., Strand, W.C. .. ..                    | .. City 1634         | Explanatus, London              |                      |
| 1 4 Griplock Washer, Ltd., 6A, Tudor St., E.C. 4 .. ..                          | .. City 989          | Emirship, London                |                      |
| Griscorn-Russell Co., West St., New York, U.S.A. .. ..                          | .. —                 | Griscorn, New York              |                      |
| Grover & Co., Ltd., Carpenter's Rd., Stratford, B. .. ..                        | Stratford 984 & 985  | Adopted, Strat., London         |                      |
| Guest & Chrimes, Rotherham .. ..                                                | .. Rotherham 205     | Guest, Rotherham                |                      |
| 1 Gunther W., & Sons, Central Works, Oldham .. ..                               | .. 317               | Gunther, Oldham                 |                      |
| 1 Guthrie & Co., St. James's Chambers, Accrington .. ..                         | Accrington 2491      | Quartz, Accrington              |                      |
| 1 2 4 6 16 Gutta Percha & Rubber, Ltd., Toronto, Canada .. ..                   | .. —                 | Guttaperch, Toronto             |                      |
| 1 4 5 16 33 Gwynnes Engineering Co., Ltd., Hammersmith Ironworks, W.            | Hammersmith 1910     | Gwynne, London                  |                      |
| 1 27 Hackbridge Cable Co., Ltd., 15, Victoria St., S.W. 1                       | Victoria 4580        | Ackbridge, Phone, London        |                      |
| Hadfields Limited, Hecla Works, Sheffield .. ..                                 | .. 750               | Hadfield, Sheffield             |                      |
| 1 4 6 Halghs (Oldham), Ltd., Globe Ironworks, Plane St.,                        |                      |                                 |                      |
| Oldham .. ..                                                                    | .. 1273              | Halgh, Oldham                   |                      |
| Halden J., & Co., Ltd., 8, Albert Square, Manchester .. ..                      | Heaton Moor 199      | Halden, Manchester              |                      |
| 1 27 Hale Thos. L., Ltd., Dudley Port, Tipton, Staffs. .. ..                    | .. Tipton 72         | Hale of, Tipton                 |                      |
| 16 Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham .. ..                   | Halesowen 81         | Steel, Halesowen                |                      |
| Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter {                            | Victoria 4780 & 6020 | Inspect, London                 |                      |
| St., Westminster, S.W. .. ..                                                    | (Photo. Dept.) 8     |                                 |                      |
| 2 Hall J. & E., Ltd., 10, St. Swithin's Lane, E.C. .. ..                        | .. Bank 845 & 846    | Hallford, London                |                      |
| 1 2 Hall J. & E., Ltd., Dartford, Kent .. ..                                    | .. Dartford 7 & 46   | Hallford, Dartford              |                      |
| Hall J. P., & Co., Ltd., Blackriding Ironworks, Werneth,                        |                      |                                 |                      |
| Oldham .. ..                                                                    | .. 300               | Dynamo, Oldham                  |                      |
| Hall J. P., & Sons, Ltd., Peterborough .. ..                                    | .. 0159              | Hall, Engineers, Peterborough   |                      |
| 1 4 16 33 Hall & Pickles, Ltd., Port St., Manchester .. ..                      | .. Manchester 6234   | Iron, Manchester                |                      |
| 1 4 Ham, Baker & Co., Ltd., Langley Green, Birmingham .. ..                     | .. Oldbury 87        | Penstock, Langley, Worcs.       |                      |
| 27 Hamilton A. H., & Co., Possilpark, Glasgow .. ..                             | .. Douglas 3585      | Satisfy, Glasgow                |                      |
| 1 Hampton & Beebe, Ltd., Wednesbury, South Staffs                               | Wednesbury 80        | Washers, Wednesbury             |                      |

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16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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|------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------|
| Hampton & Dean, Clifton Works, Wednesbury ..                                                   | Darlaston 39                          | Busirls, Led., London            |
| 1 Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W.                                      | Victoria 6374                         | Incombust, Sowest, London        |
| Handley Page, Ltd., Croydon, Surrey ..                                                         | Croydon 2410                          | —                                |
| 1 6 Hands John, & Sons, Ltd., Cardigan Works, Birmingham                                       | Central 3233                          | Machinery, Birmingham            |
| Hannan & Buchanan, 75, Robertson St., Glasgow ..                                               | 1899                                  | —                                |
| Hardy & Padmore, Ltd., Worcester Foundry, Worcester                                            | [Worcester 160                        | Quality, Worcester               |
| 1 4 27 Harper A., Sons & Bean, Ltd., Dudley, Worcestershire, Eng.                              | Dudley 2469                           | Waddams, Dudley                  |
| 1 2 4 Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham                              | Midland 2473 & 2474                   | Harris, Birmingham               |
| 1 Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.                         | Westminster 876                       | Windtight, London                |
| 1 Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger Street West, Newcastle-on-Tyne .. | Central 3220                          | Windtight, Newcastle-on-Tyne     |
| Harris & Atkins, 56, Blackfriars Rd., S.E.1 ..                                                 | Central 7882                          | Premediate, London               |
| 1 Hart Thomas, Ltd., Blackburn, England ..                                                     | Blackburn 5010                        | Hart, Blackburn                  |
| 1 4 Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.                                         | [Halifax 1238-9                       | Boilers, Halifax                 |
| Hartnell Wilson, & Co., Ltd., Volt Wks., Kirkstall Rd., Leeds                                  | [Central 282                          | Hartnell, Leeds                  |
| 4 Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow                             | { X 563 }<br>{ 1702-3 }               | Naconic, Glasgow                 |
| Harvey G. A. & Co., (London), Ltd., Greenwich Metal Works, Woolwich Rd., S.E.                  | { Greenwich 20 }<br>{ Five Lines }    | Cheaper, Char., London           |
| Harvey G. & A., Ltd., Govan, Glasgow ..                                                        | Govan 72                              | Gandah, Glasgow                  |
| 1 Haslam Foundry & Engineering Co., Ltd., Derby ..                                             | 778                                   | Zero, Derby                      |
| 1 3 27 Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds                                          | Leeds 22491                           | Hathorn, Leeds                   |
| Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne ..                                     | 1232                                  | Locomotive, Newcastle            |
| 16 Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., B.C.4                                    | City 9626                             | Tylerox, Cent., London           |
| 4 Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-Tees ..                         | { 22 }<br>{ G.P.O. 15 }               | Teesdale, Stockton-on-Tees       |
| Heap Joshua, & Co., Ltd., Ashton-under-Lyne ..                                                 | 183                                   | Heap, Limited, Ashton-under-Lyne |
| 1 6 Heath & Co., Ltd., New Eltham, S.E.9 ..                                                    | Lee Green 301 & 302                   | Polaris, London                  |
| Heavy Stampings, Ltd., Middlesbrough ..                                                        | 291                                   | Stampings, Middlesbrough         |
| 1 5 Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester                                  | [Cent. 6260                           | Spherical, Newton Heath          |
| 1 16 Heenan & Froude, Ltd., Worcester, England ..                                              | Worcester 391                         | Heenan, Worcester                |
| 1 5 Heenan & Froude, Ltd., 4, Chapel Walks, Manchester                                         | City 5187                             | Heenan, Manchester               |
| Henderson & Glass, Liverpool ..                                                                | Central 443 & 7495                    | Vulcan, Liverpool                |
| 1 3 4 Henderson John M., & Co., King's Works, Aberdeen, Scotland                               | Central 3163                          | Cranes, Aberdeen                 |
| Hendry James, Laminated Leather Works, Bridgeton, Glasgow ..                                   | { Bridgeton 1747 }<br>{ Three Lines } | Laminated, Glasgow               |
| 1 4 6 Herbert Alfred, Ltd., Coventry ..                                                        | 860 Six Lines                         | Lathe, Coventry                  |
| 1 6 Herbert Edward G., Ltd., Chapel St., Levenshulme, Manchester                               | Rusholme 176                          | Tested, Manchester               |
| 1 Heywood S. H., & Co., Ltd., Reddish ..                                                       | Heaton Moor 48                        | Cranes, Reddish                  |
| 1 2 4 Hick, Hargreaves & Co., Ltd., Soho Works, Bolton ..                                      | Bolton 1373-4                         | Mick, Bolton                     |
| Higginbottom & Mannock, Ltd., West Gorton, Manchester ..                                       | 1577                                  | Crown, Gortonbrook               |
| 1 27 Higgs Bros., Sand Pits, Birmingham ..                                                     | Central 944                           | Higbro, Birmingham               |
| Hilder Daw, 9 & 10, Southampton St., Holborn, W.C.1                                            | Museum 954                            | —                                |
| 16 Hilger, Adam, Ltd., 75a, Camden Rd., N.W.1                                                  | North 1677 & 1678                     | Sphericity, Phone, London        |
| 1 Hill, W. W., Son & Wallace, Ltd., Broughton, Manchester                                      | Central 1842                          | Polish, Manchester               |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.  
6 Private. 16 Western Union. 27 Marconi Wireless.

| NAME AND ADDRESS OF ADVERTISER. |                                                                            | TELEPHONE NUMBER.                  | TELEGRAPHIC ADDRESS.            |
|---------------------------------|----------------------------------------------------------------------------|------------------------------------|---------------------------------|
| 1 4                             | Hindley, B. S., & Sons, 11, Queen Victoria St., B.C.                       | City 9644                          | Steamport, London               |
| 1 4 16 33                       | Hingley N., & Sons, Ltd., Netherton Ironworks, Dudley                      | Dudley 2435                        | Hingley, Dudley                 |
| 1 2 3 5                         | Hobdell, Way & Co., 124-5, St. John's Hse., Minorics, B.                   | Avenue 3810                        | Hobnalls, London                |
| 1 4 16                          | Hoffmann Manufacturing Co., Ltd., Chelmsford                               | 151 Two Lines                      | Hoffmann, Chelmsford            |
|                                 | Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire           | Bilston 11                         | Holcroft's, Bilston             |
| 1                               | Holding John & Co., Ltd., Sheffield                                        | Central 268 & 272                  | Holding, Sheffield              |
|                                 | Holdsworth & Sons, Ltd., Leeds Rd., Bradford                               | .. 446                             | Steam, Bradford                 |
|                                 | Hollingdrake H. & Son, Ltd., Princes St., Stockport                        | .. 608                             | Hollingdrake, Stockport         |
| 1                               | Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham                      | East 160                           | Plungers, Birmingham            |
|                                 | Holme Edward & Co., Ltd., Altrincham, Cheshire                             | Altrincham 1103                    | Contact, Altrincham             |
| 1 4 16                          | Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne                      | Central 909                        | Holmes, Newcastle-on-Tyne       |
|                                 | Holst K., & Co., 1, Victoria St., S.W. 1                                   | Victoria 4234                      | Ferrolst, Vic., London          |
| 1 16                            | Holt & Willetts, Lion Works, Cradley Heath                                 | .. Cradley 12                      | Holt, Willetts, Cradley Heath   |
| 1 6 16 27                       | Hope Henry & Sons, Ltd., Smethwick, Birmingham                             | .. Central 996 & 999               | Conservatory, Birmingham        |
| 3 4 16                          | Hopkinson J., & Co., Ltd., Huddersfield                                    | Huddersfield 1269                  | Hopkinson, Huddersfield         |
|                                 | Hordern & Mason, St. Mary's, Birmingham                                    | .. Central 3527                    | Hordern, Vesey St., Birmingham  |
|                                 | Horne Engineering Co., St. Peters Lane, Glasgow                            | Central 1204                       | —                               |
|                                 | Horseley Bridge & Engineering Co., Ltd., Tipton, Staffordshire             | Tipton 107 & 108                   | Horseley, Tipton                |
|                                 | House F., & Co., 68, Falkner St., Liverpool                                | .. Royal 2406                      | —                               |
| 1 3                             | Houston J. W., & Co., Partick Cross, Glasgow                               | Western 2997                       | Shiplumb, Glasgow               |
| 1 4                             | Howard Pneumatic Engineering Co., Ltd., Eastbourne                         | .. 79 X                            | Inventions, Eastbourne          |
|                                 | Howden James, & Co., Ltd., Scotland St., Glasgow                           | South 2070-1-3<br>Kinning Park 195 | Howden, Glasgow                 |
| 1 33                            | Howden Overseas Trading Co., Ltd., 105, St. Vincent St., Glasgow           | Central 2858                       | Hoverstad, Glasgow              |
| 3                               | Howell & Co., Ltd., Brook Steel Works, Sheffield                           | .. 48                              | Howell, Sheffield               |
|                                 | Howell, W. R. & Co., 42, Theobalds Rd., W.C. 1                             | Holborn 6777                       | —                               |
| 1                               | Hovess & Burley, Ltd., Holloway Head, Birmingham                           | Midland 2536                       | Hallewell, Birmingham           |
| 1 4 16                          | Hoyt Metal Co., Ltd., Deodar Rd., Putney, S.W. 15                          | Putney 1323                        | Profanity, Phone, London        |
|                                 | Hudson Thomas, Ltd., Sheepfold Wks., Coatbridge, N.B.                      | [Coatbridge 58                     | Hudson, Coatbridge              |
| 2                               | Hudwell, Clarke & Co., Ltd., Railway Foundry, Leeds                        | .. 3540                            | Loco, Leeds                     |
|                                 | Hughes & Lancaster, Liverpool                                              | .. 2034                            | Diagram, Liverpool              |
|                                 | Hughes & Lancaster, 16, Victoria St., S.W.                                 | .. Victoria 4772                   | Voidance, London                |
|                                 | Hughes W. R., 94, Market St., Manchester                                   | .. —                               | —                               |
|                                 | Hull General Pattern Making Works, 58, Strawberry St., Drypool, Hull       | .. Central 107 Y                   | —                               |
|                                 | Humber Graving Dock & Engineering Co., Ltd., King's Dock, Immingham        | .. Immingham 77                    | Repairs, Immingham Dock Station |
|                                 | Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.                          | .. Victoria 609                    | Epistolary, Vic., London        |
| 1                               | Hunslet Engine Co., Ltd., Leeds                                            | .. Leeds 20677                     | Engine, Leeds                   |
|                                 | Hunt & Mitton, Ltd., Oozells St. North, Birmingham                         | Midland 393 & 394                  | Mitton, Birmingham              |
| 1 4                             | Hunt Hedley S., & Co., 5, Farringdon Rd., E.C. 1                           | .. City 5298                       | Tapsandies, London              |
|                                 | Hunt Thomas, & Sons, Bridge Rd. West, Battersea, S.W. 11                   | Battersea 261                      | Linking, Battsquare, London     |
| 1 4 16 33                       | Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell | .. 44                              | Nelson, Motherwell              |
| 1 4 16                          | Hyatt, Ltd., 4, Thurloe Place, South Kensington, S.W. 7                    | Kensington 5143                    | Hydrolim, Southkens, London     |
|                                 | Hydraulic Gears, Ltd., Beaver Lane, Hammersmith, W. 6                      | Hammersmith 1933                   | Hygearlim, Phone, London        |

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6 Private. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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|---------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|
| 4 6 Igranik Electric Co., Ltd., 147, Queen Victoria St., E.C.                               | Central 7123                       | Igranik, London                  |
| Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham .. .. .                   | Smethwick 276                      | Repeat, Birmingham               |
| India Rubber, Gutta Percha & Telegraph Works Co., Ltd., 106, Cannon St., E.C.               | { Bank 744 }<br>{ Four Lines }     | Silvergray, Cannon, London       |
| 1 India Rubber, Gutta Percha & Telegraph Works Co., Ltd., Silvertown, E..                   | —                                  | Graysilver, Silver, London       |
| 1 2 4 Ingersoll-Rand Co., 165, Queen Victoria St., E.C.                                     | City 3632                          | Ingersoll, London                |
| 1 27 Integral Oxygen Co., Ltd., 38, Victoria St., S.W.1.                                    | Victoria 2543                      | Centranos, Vic., London          |
| 1 4 16 27 International General Electric Co., Inc., Schenectady, New York U.S.A. . . . .    | —                                  | Ingenetric, New York             |
| Irontite Co., Ltd., Old Queen St., Westminster, S.W. 1.                                     | Victoria 5618                      | Thornotvin, Vic., London         |
| 16 Ironsides Company, 61A, Bold St., Liverpool ..                                           | Royal 4735                         | Hanlon, c/o Swiftsure, Liverpool |
| 1 3 Isler C., & Co., Ltd., Bear Lane, Southwark St., S.E.1                                  | .. Hop 4460                        | Isler, London                    |
|                                                                                             |                                    |                                  |
| 1 3 Jack Alexander, & Co., Ltd., Whitegates Engineering Works, Motherwell, Scotland .. .. . | Motherwell 150                     | Cranes, Motherwell               |
| 1 Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester.                            | City 8620                          | Jacksons, Manchester             |
| 1 16 Jacobs Manufacturing Co., Hartford, Conn., U.S.A. . . . .                              | —                                  | Jacobchuck, Hartford             |
| Jardine J., Ltd., Deering St., Nottingham ..                                                | 3295 & 3296                        | Jardine, Nottingham              |
| 1 4 16 Jeffrey Manufacturing Co., 90, North Fourth St., Columbus, Ohio, U.S.A. . . . .      | —                                  | Jeffrey, Columbus                |
| 6 Jenkins R., & Co., Ltd., Rotherham, Eng. . . . .                                          | Rotherham 584                      | Jenkins, Rotherham               |
| 1 16 Jenkins, W. J., & Co., Ltd., Beehive Works, Retford, Notts.                            | Retford 44                         | Jenkins, Retford                 |
| Jennings Edward J., West Walls, Newcastle-on-Tyne                                           | Central 4429                       | Potential, Newcastle-on-Tyne     |
| Jensen & Son, 77, Chancery Lane, W.C.                                                       | Holborn 1249                       | Venture, London                  |
| Jensen J. & A., & Dahl, Kristiania, Norway ..                                               | —                                  | Myren, Kristiania                |
| 1 2 4 Jessop Wm., & Sons, Ltd., Brightside Works, Sheffield                                 | Central 152                        | Jessops, Sheffield               |
| 1 2 3 4 16 Johnson & Phillips, Ltd., Charlton, S.E. 7 ..                                    | Greenwich 400                      | Juno, Charlton, London           |
| 1 4 16 33 Johnson Richard, Clapham & Morris, Ltd., Lever St., Manchester .. .. .            | Central 1120                       | Metallicus, Manchester           |
| 1 2 3 4 16 Jonas & Colver, Ltd., Sheffield ..                                               | Private Branch Exchange 4660       | Jonas, Sheffield                 |
| 1 16 Jones A. A., & Shipman, Ltd., East Park Rd., Leicester                                 | 2101                               | Chuck, Leicester                 |
| Jones & Lamson Machine Co., 9-ro, Water Lane, Queen Victoria St., B.C.4                     | City 722                           | Turretorum, Cent., London        |
| Jopling E., & Sons, Ltd., Pallion Steel Works, Sunderland                                   | Sunderland 741                     | Castings, Sunderland             |
|                                                                                             |                                    |                                  |
| 16 Kalamazoo, Ltd., Kalamazoo Works, Northfield, Birmingham                                 | Kings Norton 191                   | Kalamazoo, Birmingham            |
| 1 Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.                                           | Holborn 1847                       | Lockenean, London                |
| 1 Kaye Jos., & Sons, Ltd., Lock Works, Leeds ..                                             | 586                                | Wedge, Leeds                     |
| 1 4 Kearns H. W., & Co., Ltd., Broadheath, near Manchester                                  | Altrincham 221                     | Kearns, Altrincham               |
| Keay B. C. & J., Ltd., Corporation St., Birmingham                                          | Central 430                        | Keay, Birmingham                 |
| 1 4 16 27 Keighley Gas & Oil Engineer Co., Ltd., Imperial Works, Keighley                   | Keighley 546                       | Imperial, Keighley               |
| 1 4 Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.                          | { Holborn 6194 }<br>{ Five Lines } | James Keith, Telow, London       |
| 1 4 6 16 Kennedy's (Carnegie), Ltd., Shettleston, Glasgow                                   | Shettleston 220                    | Hukenn, Glasgow                  |
| Kennicott Water Softener Co., Ettingshall Works, Wolverhampton .. .. .                      | Wolverhampton 1138                 | Watertanks, Wolverhampton        |
| 4 Kent George, Ltd., 199, High Holborn, W.C. 1 ..                                           | Museum 4262                        | Kentobin, Westcent, London       |

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16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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|---------------------------------|----------------------------------------------------------------------------------------|----------------------------|------------------------------|
|                                 | Kenyon Alexander, & Co., Victoria Bridge, Manchester                                   | City 2307                  | Everything, Manchester       |
| 1                               | Kenyon Wm., & Sons, Ltd., Dukinfield, Manchester ..                                    | Ashton 494                 | Kenyon, Dukinfield           |
|                                 | Kermodes, Ltd., 35, The Temple, Dale St., Liverpool..                                  | Central 6920               | Warmth, Liverpool            |
| 33                              | Kilmarneck Engineering Co., Ltd., 10, Coleman St., E.C.2                               | London Wall 729            | Kilbrincock, Ave., London    |
|                                 | King's Patent Agency, Ltd., 165, Queen Victoria St., E.C.4                             | Central 682                | Geologic, London             |
|                                 | Kirby Banks Screw Co., Ltd., Leeds .. .. Central                                       | 20104 & 20105              | Hexagon, Leeds               |
|                                 | Kirk Wheatley, Price & Co., 46, Watling St., B.C. ..                                   | Bank 5077                  | Indices, London              |
|                                 | Kirk Wheatley Price & Co., Albert Sq., Manchester ..                                   | Central 3218               | Indicator, Manchester        |
|                                 | Kirkaldy, John, Ltd., 101, Leadenhall St., B.C. 3 ..                                   | Avenue 1223                | Compactum, Led., London      |
|                                 | Kirkstall Forge Ltd., Leeds .. .. Central                                              | 174                        | Forge Kirkstall              |
| 1 16 33                         | Kitchen's Reversing Rudder Co., Ltd., 711, Royal Liver Buildings, Liverpool .. .. Bank | 4115                       | Reversing, Liverpool         |
| 1                               | Kloss F., & Sons, Ltd., 20, Copthall Avenue, E.C.2                                     | London Wall 2108           | Clarendona, Ave., London     |
| 1 5                             | Knap, Conrad & Co., Ltd., 11, Queen Victoria St., E.C.4                                | Bank 8186                  | Conrad, Cannon, London       |
| 1                               | Kvaerner Brug, A/S, Kristiania, Norway .. ..                                           | —                          | Kvaerner, Kristiania         |
| 1 33                            | Kynock Ltd., Lion Works, Witton, Birmingham ..                                         | East 350                   | Kynock, Birmingham           |
| 1 4 6 16                        | Lactocel Ltd., 2, Studley Rd., Stockwell, S.W.4 ..                                     | Brixton 1443               | Coltclac, Claproad, London   |
|                                 | Lambourne & Co., Ltd., Openshaw, Manchester ..                                         | Openshaw 356               | Lambourne, Manchester        |
| 1 3 16                          | Lancashire Dynamo & Motor Co., Ltd. Trafford Park, Manchester                          | City 7450<br>{ Six Lines } | Ironclad, Manchester         |
| 1 16                            | Lanarkshire Steel Co., Ltd., Motherwell .. ..                                          | 7                          | Siemens, Motherwell          |
| 1                               | Lancaster & Tonge, Ltd., Pendleton, near Manchester ..                                 | City 4631                  | Pistons, Manchester          |
| 6                               | Lang John, & Sons, Lathe Makers, Johnstone, N.B. ..                                    | 12                         | Lang, Johnstone              |
| 1 16 27                         | Lanston Monotype Corporation, Ltd., 43, Fetter Lane, E.C.4                             | Holborn 5723               | Monotype, Fleet, London      |
| 1 4 16 33                       | Lash Robert H., Ltd., 23, Tavistock Sq., W.C. 1                                        | Museum 6341                | Fabricants, Phone, London    |
| 1                               | Laurence, Scott & Co., Ltd., Norwich .. ..                                             | 1362 & 1363                | Gothic, Norwich              |
| 1                               | Lea Recorder Co., Ltd., 28, Deansgate, Manchester ..                                   | City 5040                  | Recording, Manchester        |
|                                 | Lea Valley Engineering Co., Ltd., City Foundry, Waltham Cross                          | Waltham Cross 5            | —                            |
| 1 6                             | Leathers Company (Altrincham), Limited, Altrincham, near Manchester .. ..              | Altrincham 830             | Leathers Company, Altrincham |
|                                 | Le Bas Edward, & Co., Dock House, Billiter St., B.C.                                   | Avenue 5463                | Gramercy, London             |
| 4                               | Lee Arthur, & Sons, Ltd., Sheffield .. ..                                              | Central 4540               | Crown, Sheffield             |
| 1 27                            | Leeds Engineering & Hydraulic Co., Ltd., Rodley, Nr. Leeds                             | Stanningley 160            | Pumps, Rodley                |
| 1 2 3 4 16                      | Leeds Forge Co., Ltd., Leeds .. .. Five Lines                                          | 20621                      | Vulpes, Leeds                |
| 1 3 6                           | Lees T. & R., Ltd., Hollinwood, near Manchester ..                                     | Fallswood 16               | Lees, Hollinwood             |
|                                 | Leggo F. Thompson, & Co., 16, South Castle St., Liverpool..                            | Bank 4836                  | Embossing, Liverpool         |
| 11 16                           | Leopold Walford (London), Ltd., 29, Great St. Helens, E.C. 3                           | Avenue 5666 & 7370         | Skikari, Ltd., London        |
|                                 | Leroy F., & Co., 20, Gray St., Commercial Rd., B. ..                                   | Central 5055               | Efficiency, London           |
| 1                               | Lewis & Tylor, Ltd., Cardiff .. ..                                                     | 3230                       | Belting, Cardiff             |
| 1                               | Library Press, Ltd., 1, Portugal St. Buildings, Portugal St., W.C. 2 .. ..             | Holborn 1387               | —                            |
| 1 2 4 16                        | Lidgerwood, Ltd., Friars House, New Broad St., B.C. ..                                 | London Wall 7423           | Lidgerwood, London           |
| 1 4 16                          | Lilleshall Co., Ltd., Oakengates, Shropshire ..                                        | Oakengates 28              | Lilleshall, Oakengates       |
|                                 | Lindsay R. B., & Co., 38, Mair St., Plantation, Glasgow ..                             | Ibrox 303                  | Conical, Glasgow             |

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6 Private. 11 South's. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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| Lipcombe Fredk. & Co., 49, Queen Victoria St., E.C. 4                                               | .. City 2833         | Lipogram, London               |
| 1 2 33 Lister R. A., & Co., Ltd., Dursley, Glos. .. ..                                              | .. Dursley 7         | Machinery, Dursley             |
| Liverpool Refrigeration Co., Ltd., Colonial House, Liverpool                                        | Central 6897         | Polar, Liverpool               |
| Lloyd F. H., & Co., Ltd., James Bridge Steel Works, nr. Wednesbury                                  |                      |                                |
|                                                                                                     | Darlaston 44         | Steel, Darlaston               |
| Llewellyn's Machine Co., Bristol, England .. ..                                                     | Bristol 3091         | Llewellyn's, Bristol           |
| 1 4 Lloyd, Richard, & Co., Galton Works, Steelhouse Lane, Birmingham                                |                      |                                |
|                                                                                                     | Central 7251-7254    | Cogs, Birmingham               |
| Lobnitz & Co., Ltd., Renfrew, Scotland .. ..                                                        | Renfrew 4            | Lobnitz, Renfrew               |
| Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield ..                                              | Central 1376         | Piston, Sheffield              |
| Lockwood Crosby, & Son, 7, Stationer's Hall Court, B.C.                                             | Central 4421         | Crosby Lockwood, Cent., London |
| Lodge Bros. & Co., Rugby .. ..                                                                      | Rugby 276            | Ignita, Rugby                  |
| London & Lancashire Fire Insurance Co., Ltd., 155, {                                                | Avenue 7070          | Polley, Led., London           |
| Leadenhall St., E.C. .. ..                                                                          | Four Lines           |                                |
| Longbotham Jonathan, & Sons, Ltd., Water Lane, Sheffield                                            | 2461 & 2462          | Survey, Sheffield              |
| Longmans, Green & Co., 39, Paternoster Row, E.C. ..                                                 | City 3670            | Longmans, Cent., London        |
| London Brothers, Ltd., 39, West Campbell St., Glasgow                                               | { Argyle 553         | Achilles, Glasgow              |
|                                                                                                     | Central 553          |                                |
| Low Temperature Carbonisation, Ltd., 14 & 16, Cockspur St., S.W. 1                                  | Gerrard 8887         | Lewtemcar, Phone, London       |
| 1 Luke & Spencer, Ltd., Canal Eng. Works, Altrincham                                                | Altrincham 49        | Emery, Altrincham              |
| Lunken Company, Ltd., 35, Great Dover St., S.B. ..                                                  | .. Hop 4487          | Lunken, London                 |
| Lunts, Ltd., Halford St., Leicester .. ..                                                           | Central 3779         | Tools, Leicester               |
| 1 2 4 25 Lysaght John, Ltd., St. Vincent Ironworks, Bristol ..                                      | .. 5720              | Lysaght, Bristol               |
|                                                                                                     |                      |                                |
| 1 Macfarlane Engineering Co., Ltd., Netherlee Rd., Cathcart                                         | Langside 555         | Power, Cathcart                |
| 1 3 Machinery & Steels, Ltd., 64, Great Eastern St., E.C.2.                                         | London Wall 5633     | Achneel, Bethroad, London      |
| Machinery Publishing Co., Ltd., 51, Chancery Lane, W.C.2                                            | Holborn 1718         | —                              |
| MacLaren Brothers, Ltd., 24, St. Vincent Place, Glasgow                                             | Central 5066         | —                              |
| 4 MacLellan P. & W., Ltd., Clutha Works, Glasgow ..                                                 | .. Bell 2200         | MacLellan, Glasgow             |
| 4 MacLellan P. & W., Ltd., 108A, Cannon St., B.C. ..                                                | .. City 2321         | MacLellan, London              |
| 1 Macmillan & Co., Ltd. St. Martin's St., W.C. 2 ..                                                 | .. Gerrard 8830      | Publish, Westrand, London      |
| MacNab John (Machinery), Ltd., Mary St. Hyde ..                                                     | .. Hyde 78           | Lathes, Hyde                   |
| 4 Macrez A. R., 34, Rue de Londres, Paris (9 E) ..                                                  | .. Louvre 42-96      | Zercamex, Paris                |
| 33 McClintic-Marshall Products Co., 50, Church St., New York, U.S.A. .. ..                          | —                    | Macmarsh, New York             |
| 16 36 McCord Manufacturing Co., Inc., Detroit, Michigan, U.S.A.                                     | —                    | McCord, Detroit                |
| 1 McGowan, Wild & Co., Hurst St., Birmingham ..                                                     | Midland 1816         | Logic, Birmingham              |
| McGraw-Hill Publishing Co., Ltd., 6 & 8, Bouverie St., E.C.4                                        |                      |                                |
|                                                                                                     | Holborn 5158         | Backlash, Fleet, London        |
| 11 McGregor, Gow & Holland, Ltd., 1 & 4, Fenchurch Avenue, E.C.3                                    | Avenue 5304          | Eastwardly, London             |
| 1 4 McKechnie Brothers, Ltd., Rotton Park St., Birmingham                                           | Edgbaston 381        | McKechnie, Birmingham          |
| 1 33 McKenzie & Holland, Ltd., 82, York Rd., King's Cross, N.1                                      | North 2416           | Westinghouse, Phone, London    |
| 1 33 McKenzie, Holland & Westinghouse Power Signal Co., Ltd., 82, York Rd., King's Cross, N.1 .. .. | North 2416           | Westinghouse, Phone, London    |
| 1 2 3 6 McKie & Baxter, Copland Works, Govan, Glasgow ..                                            | .. Govan 35          | Calidad, Glasgow               |

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11 Scott's. 16 Western Union, 25 Premier. 33 Bentley's. 36 Postal.

# CODES, AND TELEPHONE NUMBERS.

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| NAME AND ADDRESS OF ADVERTISER.                                                                    | TELEPHONE NUMBER.                 | TELEGRAPHIC ADDRESS.               |
|----------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|
| 1 3 McLachlan & Co., Ltd., Darlington .. .. .                                                      | Darlington 2021                   | Railway, Darlington                |
| 1 3 McNeil C., Ltd., Kinning Park Hydraulic Forge, Glasgow                                         | [Ibros 520-3]                     | Macneil, Glasgow                   |
| McRobie John, & Sons, 94, Elliott St., Glasgow .. .. .                                             | Central 1241                      | McRobie, Glasgow                   |
| 4 Magnolia Anti-Friction Metal Co. of Great Britain, Ltd.,<br>49, Queen Victoria St., B.C. .. .. . | City 6596                         | Magnoller, London                  |
| 1 Malden & Co., Ltd., Hyde, Cheshire .. .. .                                                       | Hyde 29                           | Malden, Hyde                       |
| 1 Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow .. .. .                                        | Gorbals 508                       | Rheostat, Glasgow                  |
| Manchester Steam Users' Association, 9, Mount St., Manchester                                      | [Central 4889]                    | Steam Users, Manchester            |
| 1 2 4 Manlove, Allott & Co., Ltd., Nottingham .. .. .                                              | 274                               | Manloves, Nottingham               |
| 1 2 4 Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.                                   | [Gerrard 3405]                    | Manloves, London                   |
| Manning, Maxwell & Moore, Inc., New York .. .. .                                                   | —                                 | Cognition, New York                |
| 1 3 Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds                                         | Leeds 24516                       | Manning, Leeds                     |
| 4 16 Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., B.C. 1<br>City 1494                    | City 1494                         | Markt, Smith, London               |
| 1 2 6 Marsden H. R., Ltd., Soho Foundry, Leeds .. .. .                                             | Central 526                       | Marsden, Leeds                     |
| Marsden S., & Son, Ltd., London Rd., Manchester                                                    | Central 2031                      | Bolta, Manchester                  |
| Marshall, Fleming & Co., Ltd., Motherwell .. .. .                                                  | 50                                | Delburn, Motherwell                |
| 23 46 16 Marshall, Sons & Co., Ltd., Gainsborough .. .. .                                          | Gainsborough 125                  | Marshall, Gainsborough             |
| 23 46 16 Marshall, Sons & Co., Ltd., 3, London Wall Buildings, London<br>Wall, B.C. 2 .. .. .      | London Wall 1667                  | Engine, Ave., London               |
| Mason Regulator Co., Boston, Mass., U.S.A. .. .. .                                                 | —                                 | Masonica, Boston, U.S.A.           |
| 1 12 Massey B. & S., Ltd., Openshaw, Manchester .. .. .                                            | City 8670                         | Massey, Openshaw                   |
| 1 Matterson, Ltd., Shawclough, Rochdale .. .. .                                                    | —                                 | Matterson, Shawclough, Rochdale    |
| 1 Mandalay Motor Co., Ltd., Parkside, Coventry .. .. .                                             | 110                               | Mandslay, Coventry                 |
| Mayer & Coulson, Ltd., 47, Broad St., Mile End, Glasgow                                            | [Bridge-ton 960]                  | Prodigious, Glasgow                |
| Moxley & Knott, Ltd., Burnett Avenue, Hull .. .. .                                                 | Central 4300                      | Energy, Hull                       |
| 1 2 Maxwell & Fage, 49, Sefton St., Liverpool .. .. .                                              | Royal 1817                        | Galvanizer, Liverpool              |
| Maycock Alex. W., Chapel St., Stalybridge .. .. .                                                  | —                                 | Machinery, Chapel St., Stalybridge |
| 1 3 Mechans Limited, Scotstoun Ironworks, Glasgow .. .. .                                          | { Hillhead 2380<br>Western 2629 } | Nautical, Glasgow                  |
| Meldrums, Ltd., Timperley, near Manchester .. .. .                                                 | Altrincham 181                    | Meldrum, Altrincham                |
| 1 Merryweather & Sons, Ltd., 63, Long Acre, W.C.                                                   | Gerrard 1795                      | Meryweather, London                |
| Metallic Manufacturing Co., Ltd., Ardrossan .. .. .                                                | Ardrossan 91                      | Joining, Ardrossan                 |
| 1 2 Metallic Valve Co., Colonial House, Water St., Liverpool                                       | [Central 5618]                    | Valve, Liverpool                   |
| 1 4 Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne<br>Central 3551-2, Newcastle-on-Tyne   | Central 3551-2, Newcastle-on-Tyne | Ingots, Newcastle-on-Tyne          |
| Metropolitan Vickers Electrical Co., Ltd., Trafford Park, Manchester<br>Trafford Park 190-7        | Central 3551-2, Newcastle-on-Tyne | Metrovick, Manchester              |
| 1 Michell Tyre Co., Ltd., 81, Fulham Rd., Chelsea, S.W.                                            | [Kensington 4400]                 | Pneumica Telev, London             |
| 16 33 Michell Bearings, Ltd., 3, Central Buildings, S.W. 1 .. .. .                                 | Victoria 7676                     | Michbearo, Vic., London            |
| 1 27 Middleton Bros., Westover Works, Pudsey, Leeds<br>Stanningley, Leeds, 275                     | Stanningley, Leeds, 275           | Cranes, Pudsey                     |
| 1 4 Middleton Robt., & Co., Sheepscar Foundry, Leeds .. .. .                                       | 214                               | Hydraulic, Leeds                   |
| 3 4 Middleton Robt., & Co., 22, Martin's Lane, Cannon St., B.C.                                    | Bank 5436                         | Intensifier, London                |
| Midland Railway Carriage & Wagon Co., Ltd., Midland Works,<br>Birmingham .. .. .                   | East 483                          | Wagon, Birmingham                  |
| Mikron Ltd., Madretsch, Bienne, Switzerland .. .. .                                                | 818                               | Mikron, Bienne                     |
| Mild Steel Castings, Ltd., Tyseley, Birmingham                                                     | [Acocks Green 131]                | Mildsteel, Hay Mills               |
| 1 Mills William, Ltd., Grove St., Birmingham .. .. .                                               | Smethwick 9                       | Wilml, Birmingham                  |
| 1 4 33 Millwall Engineering Co. Ltd., 21, Pantou St., S.W. 1<br>Gerrard 1327 & 1328                | Gerrard 1327 & 1328               | Ironware, Charles, London          |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's.  
6 Private. 12 Unicode. 16 Western Union, 24 Broomhall's.  
27 Marconi Wireless. 33 Bentley's.

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| NAME AND ADDRESS OF ADVERTISER.                                            |                     | TELEPHONE NUMBER.      | TELEGRAPHIC ADDRESS.           |
|----------------------------------------------------------------------------|---------------------|------------------------|--------------------------------|
| Mirreles, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport [Stockport 443 |                     |                        | Economy, Hazel Grove           |
| 6 Mirreles Watson Co., Ltd., Scotland St., Glasgow {                       |                     | South Side 1781 & 1783 | Mirreles, Glasgow              |
|                                                                            |                     | Kinning Park 69        |                                |
| 1 6 Moorlands Engineering Co., Ltd., Leek, Staffs. ..                      | Leek 101            |                        | Moorlands Eng. Co., Ltd., Leek |
| 1 6 16 37 Morden, S. H., & Co., Ltd., 18, Dartmouth St., S.W. 1            | Victoria 2921       |                        | Dominating, Vic., London       |
| 1 3 4 16 Morris, Herbert, Ltd., Loughborough, England ..                   | Loughborough 123    |                        | Cemorria, Loughborough         |
| Morton & Weaver, Cox St., Coventry ..                                      | 952                 |                        | Precision, Coventry            |
| Motherwell Bridge Co., Ltd., Motherwell, N.B. ...                          | 40                  |                        | Bridge, Motherwell             |
| 2 Motor Rail & Tram Car Co., Simplex Works, Bedford ..                     | Bedford 110         |                        | Motral, Bedford                |
| 1 Mountford Fredk., Ltd., Old Cross St., Birmingham ..                     | Midland 1317        |                        | Everything, Birmingham         |
| 1 33 Mowbray, F. H., 14, Southampton St., Strand, W.C. ..                  | Gerrard 8620        |                        | Effembral, Phone, London       |
| Muir Wm., & Co., Ltd., Sherbourne St., Manchester ..                       | City 520            |                        | Britannia, Manchester          |
| 1 Mumford A. G., Ltd., Culver St. Engineering Works, Colchester            | National 129        |                        | Mumford, Colchester            |
| 1 Muniz P. H., & Co., Ltd., Alexandra Works, West Bromwich                 | 225                 |                        | Muniz, Westbromwich            |
| 4 Munzing H., Ltd., 90-96, Union St., S.E. 1 ..                            | Hop 4440            |                        | Munzing Sedist, London         |
| 1 Murray, McVinn & Co., Ltd., Mavisbank Quay, Glasgow                      | Ibrox 890           |                        | Metallic, Glasgow              |
| Musgrave Bros., Crown Point Foundry, Leeds ..                              | 1226                |                        | Tools, Leeds                   |
| Musgrave & Co., Ltd., St. Anne's Ironworks, Belfast ..                     | —                   |                        | Musgrave, Ltd., Belfast        |
|                                                                            |                     |                        |                                |
| 1 Napier Bros. Ltd., 130, Hyde Park St., Glasgow, W. ...                   | Central 6714        |                        | Windlass, Glasgow              |
| Nathan H. L., 16, Regent Place, Birmingham ..                              | Central 7416        |                        | Expedient, Birmingham          |
| National Boiler & General Insurance Co., Ltd., St. Mary's                  |                     |                        |                                |
| Parsonage, Manchester ..                                                   | Central 2624        |                        | National, Manchester           |
| National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester               | 425                 |                        | National, Ashton-under-Lyne    |
| Neal Geo. H., & Co., Ltd., 11, Southampton Row, W.C. 1                     | Museum 3681         |                        | Assistamus, London             |
| 4 27 Negretti & Zambra, 38, Holborn Viaduct, E.C. ..                       | Holborn 583         |                        | Negretti, London               |
| 1 4 Newcastle Alloy Co., Ltd., Milburn House, Newcastle-on-Tyne            | City 800            |                        | Alloy, Newcastle-on-Tyne       |
| Newcastle Shipbuilding Co., Ltd., Hebburn-on-Tyne ..                       | Hebburn 83-86       |                        | Watertight, Hebburn            |
| New Gutta Percha Co., Ltd., Dashwood House, New Broad                      |                     |                        |                                |
| St., E.C. 2 ..                                                             | London Wall 2611    |                        | Guttashea, Ave., London        |
| Newall Engineering Co., Walthamstow, E. 17 ..                              | Walthamstow 830     |                        | Telltale, Walthill, London     |
| 1 Newalls Insulation Co., Ltd., 31, Moseley St., Newcastle-on-Tyne         | Central 3435 & 3436 |                        | Newalls, Newcastle-on-Tyne     |
| 1 6 Newbold Walter, & Co., Ltd., 22, Martin Lane, Cannon St., E.C. 4       | City 709            |                        | Newbold, London                |
| Newton, Bean & Mitchell, Dudley Hill, Bradford ..                          | Dudley Hill 125     |                        | Adroit, Dudley Hill            |
| Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near                  |                     |                        |                                |
| Sheffield ..                                                               | Central 2200        |                        | Newton, Sheffield              |
| 16 Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.),              |                     |                        |                                |
| Northallerton, Yorks                                                       | Gateshead 466       |                        | Nichols, Engineers, Gateshead  |
| 2 4 6 Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A. ..            | —                   |                        | Nileco, New York               |
| Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne                        | Gateshead 23        |                        | Lathes, Felling                |
| Normand Augustin, 67, Rue du Perrey, Le Havre, France ..                   | —                   |                        | —                              |
| 1 North British Locomotive Co., Ltd., Administration Building,             |                     |                        |                                |
| 110, Flemington St., Springburn, Glasgow ..                                | Central 2503        |                        | Loco, Glasgow                  |
| 1 4 North British Rubber Co., Ltd., 257-259, Oxford St., W. 1              | Mayfair 3573 & 4    |                        | Clinchex, Phone, London        |
| 4 North-Eastern Marine Engineering Co., Ltd., Northumberland               |                     |                        |                                |
| Wallsend 126 & 127                                                         |                     |                        | News, Wallsend                 |

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|-----------------------------------------------------------------------|--|------------------------------|-----------------------------------|
| North Eastern Railway Co., York .. .. . York                          |  | 365                          | Chief Goods, Railway, York        |
| 1 Northern Ball Bearings, Ltd., 115, Great Portland St., W.1          |  | Mayfair 4244                 | Enorbalber, London                |
| 4 16 Northern Crane Works, Ltd., Walkerville, Ontario, Canada         |  | Windsor 162                  | Newcrane, Walkerville             |
| 1 4 16 Notcutt Walter P., Ltd., 8, White St., Moorfields, E.C.        |  | London Wall 5220             | Ironheads, London                 |
| Oskey John, & Sons, Ltd., Westminster Bridge Rd., S.B.                |  | Central 9781                 | Oskey, London                     |
| 1 Ohio Body Blower Co., Cleveland, Ohio, U.S.A. .. .. .               |  | —                            | Swartwout, Cleveland              |
| 1 2 4 16 Oilwell Supply Co., Dashwood House, New Broad St., E.C.      |  | London Wall 4535             | Wellocoy, London                  |
| Olsen, William, Ltd., Cogan St., Hull .. .. .                         |  | —                            | —                                 |
| 2 4 5 24 Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield     |  | [Central 4544                | Osborn, Sheffield                 |
| Oxy-Acetylene Welding Co., Ltd., 169, Finnieston St., Glasgow         |  | Charing 1187                 | Fink, Glasgow                     |
| Painley, Ltd., 72, Jamaica St., Glasgow .. .. .                       |  | { Central 5097-8<br>8574 }   | Outfitter, Glasgow                |
| Pare, Ltd., Clarence Works, Lockhurst Lane, Coventry                  |  | Coventry 1127                | Pare, Coventry                    |
| Parker Foundry Co., Ltd., Derby .. .. .                               |  | 366                          | Parker, Derby                     |
| Parker, Frederick, Dunn's Lane, Leicester .. .. .                     |  | Central 827                  | Parker, Dunn's Lane, Leicester    |
| 1 Parkinson J., & Son, Shipley, Yorkshire .. .. .                     |  | Shipley 80                   | Temples, Shipley                  |
| Parsons C. A., & Co., Ltd., Heaton Works, Newcastle .. .. .           |  | Central 3490                 | Turbo, Newcastle-on-Tyne          |
| Parsons C. A., & Co., Ltd., 8, Victoria St., S.W. .. .. .             |  | Gerrard 5686                 | Silently, London                  |
| Partington Steel & Iron Co., Ltd., Irlam, Manchester                  |  | Urmston 33 & 40              | Steel, Cadhead                    |
| Patent Die-Castings Co., Ltd., 64, Strode Rd., N.W. 10 ..             |  | Willesden 733                | Dykasyn, Willroad, London         |
| 1 Patent Lightning Crusher Co., Ltd., 14A, Rosebery Av.,              |  | Gray's Inn Rd., E.C. .. .. . | .. City 4656                      |
| 1 Paterson Engineering Co., Ltd., 21, Windsor House, Kingsway,        |  | W.C. 2 .. .. .               | Gerrard 6560                      |
| Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton ..              |  | 5                            | Faul, Dumbarton                   |
| Pearn F., & Co., Ltd., West Gorton, Manchester                        |  | [Central 3012 & 3113         | Pumps, Manchester                 |
| Pearson, S., & Son (Contracting Department), Ltd. .. .. .             |  | Victoria 8930                | Sonraep, Vic., London             |
| Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol                 |  | [Fishponds 6                 | Peckett, Bristol                  |
| 1 Pegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow ..           |  | Central 3240                 | Gunmetal, Glasgow                 |
| 1 Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                    |  | Bridge-ton 2544              | Penman, Glasgow                   |
| 1 Penney & Porter, (Engineers) Ltd., City Iron & Steel Works, Lincoln |  | 211                          | Screens, Lincoln                  |
| Perman & Co., Ltd. 82 & 83, Fenchurch St., E.C. 3                     |  | Avenue 5236                  | Apermaco, Phone, London           |
| Petters, Ltd., Nautilus Works, Yeovil .. .. .                         |  | .. Yeovil 21                 | Petters, Yeovil                   |
| 1 Picard, A., 4, New Burlington St., W. 1 .. .. .                     |  | Regent 5210                  | Nleuplane, London                 |
| Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow .. .. .            |  | .. Airdrie 2                 | Pickering, Wishaw                 |
| Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W.                   |  | [Westminster 5271            | Wagonload, London                 |
| Picketts, Ltd., Mortimer Works, Hove, Sussex .. .. .                  |  | Hove 3072                    | Picketts, Hove                    |
| 1 4 6 Pickles John & Son, (Engineers) Ltd., Hebden Bridge, Yorks      |  | .. 12                        | Pickles, Engineers, Hebden Bridge |
| 1 16 Piggott Thos., & Co., Ltd., Birmingham .. .. .                   |  | Central 3323                 | Atlas, Birmingham                 |
| 1 2 16 Piggott Thos., & Co., 63, Queen Victoria St., B.C. .. .. .     |  | .. City 8752                 | Intersection, London              |
| 1 Pitman Sir Isaac, & Sons, Parker St., Kingsway, W.C.2               |  | Central 6519                 | Contemporary, Cent., London       |
| 1 33 Pitter's Ventilating & Engineering Co., Ltd., Woolwich, S.E. 18  |  | Woolwich 427 & 624           | Ventifania, Wol., London          |
| Pittsburgh Iron & Steel Foundries Co., Pittsburgh, Penna., U.S.A. —   |  | Grant 901 & 902              | Adamite, Pittsburg                |

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| Platt Samuel, Ltd., Wednesbury                                                             | .. | .. | .. | 60                                  | Platt, Wednesbury                             |
| 1 Player W. & J., Birmingham                                                               | .. | .. | .. | 1404                                | Method, Birmingham                            |
| Pieck Foundry Co., Ltd., Darlaston Rd., Walsall                                            | .. | .. | .. | Walsall 492                         | Foundry, Walsall                              |
| 1 Plenty & Son, Ltd., Newbury, Berkshire                                                   | .. | .. | .. | Newbury 7                           | Plenty, Newbury                               |
| 4 Pollock & Macnab, Ltd., Bredbury, Stockport                                              | .. | .. | .. | 613                                 | Macnab, Woodley                               |
| 6 Pollock Macnab & Highgate, Shettleston, Glasgow                                          | .. | .. | .. | Shettleston 143                     | Highgate, Shettleston                         |
| 1 Pontifex & Wood, Ltd., Union Foundry, Derby                                              | .. | .. | .. | 50                                  | Zero, Derby                                   |
| 1 Pontifex & Wood, Ltd., 175-177, Salisbury House, London Wall, B.C.                       | .. | .. | .. | { London Wall 862<br>Central 5196 } | Pontef, London                                |
| 1 Pope's Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W.                               | .. | .. | .. | 10                                  |                                               |
| 1 16 Positive Lock Washer Co., 118-122, James Watt St., Glasgow                            | .. | .. | .. | Willesden 1170<br>Central 2982      | Planetary, Phone, London<br>Keystone, Glasgow |
| Pott, Camels & Williamson, Motherwell, near Glasgow                                        | .. | .. | .. | Motherwell 22                       | Pott, Motherwell                              |
| 1 3 6 16 Power Gas Corporation, Ltd., Stockton-on-Tees                                     | .. | .. | .. | 501                                 | Tetramic, Stockton-on-Tees                    |
| 1 6 27 Power Plant Co., Ltd., West Drayton, Middlesex                                      | .. | .. | .. | Yiewsley 71                         | Roe, West Drayton                             |
| 1 Powerite Steam Joining Co., Ltd., 16 & 17, Devonshire Square, E.C. 2                     | .. | .. | .. | Bank 5395                           | Powrting, Ave., London                        |
| Pracht Brothers, Denton Iron Works, Carlisle                                               | .. | .. | .. | 344                                 | Prachtis, Engineers, Carlisle                 |
| 1 Precision Gauges, Ltd., Wrentham St., Birmingham                                         | .. | .. | .. | Midland 1016                        | Rekrap, Birmingham                            |
| 1 4 Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, Nr. Guildford, Surrey | .. | .. | .. | .. Shalford 27                      | Free cooler, Shalford                         |
| 1 4 Premier Gas Engine Co., Ltd., Sandiacre, Nottingham                                    | .. | .. | .. | Sandiacre 39                        | Premier, Sandiacre                            |
| 1 Priestman Bros., Ltd., Holderness Foundry, Hull                                          | .. | .. | .. | 81                                  | Priestman, Hull                               |
| 1 Priestman Bros., Ltd., 28, Victoria St., S.W. 1                                          | .. | .. | .. | Victoria 6171                       | Priestman, London                             |
| Priniceps & Co., Sheffield                                                                 | .. | .. | .. | 2315                                | Priniceps, Sheffield                          |
| Proctor James, Ltd., Burnley, Lancashire                                                   | .. | .. | .. | 212                                 | Proctor, Burnley                              |
| Progress Engineering Design Co., 66, Victoria St., Westminster, S.W. 1                     | .. | .. | .. | Victoria 3706                       | —                                             |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.                          | .. | .. | .. | { Victoria 4545                     | Pulsometer, London                            |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, Berks.           | .. | .. | .. | 583                                 | Pulsometer, Reading                           |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 15, King St., Leeds                            | .. | .. | .. | 1925                                | Pulsometer, Leeds                             |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool                       | .. | .. | .. | 228                                 | Pulsometer, Liverpool                         |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 160, St. Vincent St., Glasgow                  | .. | .. | .. | { City 8526<br>Central 1426 }       | Pulsometer, Glasgow                           |
| 1 2 3 4 5 Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester       | .. | .. | .. | City 45                             | Pulsometer, Manchester                        |
| Furden Charles, Ltd., 262, Corporation St., Birmingham                                     | .. | .. | .. | Central 224                         | Presses, Birmingham                           |
| Rahn-Larmon Co., Cincinnati, Ohio, U.S.A.                                                  | .. | .. | .. | —                                   | —                                             |
| 1 Ramsay & Marshall, Ltd., Birmingham                                                      | .. | .. | .. | Central 7531                        | Ramsay, Birmingham                            |
| 2 4 Ransome A. & Co., Ltd., 63, Queen Victoria St., E.C.                                   | .. | .. | .. | City 8779                           | Ransome, Cent., London                        |
| 4 Ransome A. & Co., Ltd., Stanley Works, Newark-on-Trent                                   | .. | .. | .. | 119                                 | Ransome, Newark-on-Trent                      |
| Ransomes Machinery Co. (1920), Ltd., 14 & 16, Grosvenor Gardens, S.W. 1                    | .. | .. | .. | Victoria 8060                       | Ransomaco, Sowest, London                     |
| 1 27 Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich                                 | .. | .. | .. | Ipswich 904                         | Waterside, Ipswich                            |
| 1 2 4 6 Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich                            | .. | .. | .. | 11                                  | Ransomes, Ipswich                             |
| 1 2 4 6 Ransomes, Sims & Jefferies, Ltd., 46, Queen Victoria St., E.C. 4                   | .. | .. | .. | { Central 10617                     | Anglia, London                                |
| Rapid Magnetizing Machine Co., Ltd., 52, Lombard St., Birmingham                           | .. | .. | .. | 1842                                | Borings, Birmingham                           |

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| Raworth John B., & Moss, 75, Victoria St., S.W. 1 ..                    |  | Victoria 2025                     | Raworthic, Vic., London   |
| 1 3 Reader B., & Sons, Phoenix Works, Cremorne St., Nottingham ..       |  | 414                               | Readers, Nottingham       |
| 4 6 Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich ..           |  | 325                               | Reavell, Ipswich          |
| 1 2 Reay Gearworks, Ltd. Gateshead-on-Tyne ..                           |  | Gateshead 520                     | Gears, Gateshead          |
| Reddaway F., & Co., Ltd., Pendleton, Manchester ..                      |  | .. City 5220                      | Anchorage, Manchester     |
| Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.                 |  | Gerrard 5878                      | Firoks, London            |
| Reddaway F., & Co., Ltd., 50 and 51, Lime St., E.C.                     |  | Avenue 2856                       | Reddaway, London          |
| 1 4 27 Redman C., & Sons, Kingston, Halifax ..                          |  | .. 308                            | Planers, Halifax          |
| 1 27 Redpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh        |  | Central 1256                      | Redpath, Edinburgh        |
| 2 3 16 Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Eng. .. |  | Wolverhampton 900                 | Hydroturbo, Wolverhampton |
| Reid Gear Co., Linwood, near Paisley ..                                 |  | Johnstone 4 X                     | Reid, Linwood             |
| Reid, John (London), Ltd., 4, Lloyd's Ave., E.C.3 ..                    |  | Central 6142                      | Joreldesk, Fen., London   |
| 4 Renold Hans, Ltd., Burnage Works, Didsbury, Manchester                |  | Heaton Moor 295                   | Driving, Stockport        |
| Reverman G., The Limes, High View Avenue, Grays, Essex                  |  | —                                 | —                         |
| 1 16 Reyrolle A. & Co., Ltd., Hebburn-on-Tyne ..                        |  | { Gateshead 279<br>Two Lines }    | Reyrolle, Hebburn         |
| 4 Rhodes Manufacturing Co., Hartford, Conn., U.S.A. ..                  |  | Charter 8429                      | Rhodes, Hartford          |
| 1 Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds            |  | 2362                              | Freas, Leeds              |
| Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                 |  | Wednesbury 98                     | Richards, Wednesbury      |
| Richards Geo., & Co., Ltd., Broadheath, nr. Manchester                  |  | Altrincham 14                     | Richards, Altrincham      |
| Richards J. H., & Co., Ltd., Cato St. North, Salford, Birmingham ..     |  | .. East 800                       | Westminster, Birmingham   |
| 1 16 Richardsons, Westgarth & Co., Ltd., Engine Works, Hartlepool       |  | 247                               | Richardsons, Hartlepool   |
| Richmond Gas Stove & Meter Co., Ltd., Academy St., Warrington ..        |  | { 415<br>Three Lines }            | Gastoves, Warrington      |
| 16 Riddel John H., Ltd., 40, St. Bnoch Square, Glasgow ..               |  | Central 8722                      | Ridel, Glasgow            |
| 1 Robertson Thos. R., 7, Hurst St., Liverpool ..                        |  | Central 1935                      | Hydraulic, Liverpool      |
| Robey & Co., Ltd., Lincoln ..                                           |  | .. 3                              | Robey, Lincoln            |
| 1 3 4 Robinson T., & Son, Ltd., Rochdale ..                             |  | .. 467                            | Robinson, Rochdale        |
| 1 Robson John (Shipley), Ltd., Shipley, Yorks. ..                       |  | .. Shipley 57                     | Robsons, Shipley          |
| 1 2 Roe & Harrison, Ltd., Derby ..                                      |  | Derby 1054                        | Globe, Derby              |
| 3 Rose, Downs & Thompson, Ltd., Old Foundry, Hull ..                    |  | Central 344                       | Rose, Hull                |
| 1 2 Ross & Duncan, Whitefield Works, Glasgow ..                         |  | .. 5223                           | Whitefield, Glasgow       |
| Rosser & Russell, Ltd., Queen's Wharf, Hammersmith (Hammersmith 31      |  | ..                                | Lesorus, Hammer, London   |
| 1 4 Rowan David, & Co., Ltd., 231, Elliot St., Glasgow ..               |  | Central 4340                      | Rowan, Glasgow            |
| 1 4 6 Rowson DREW & Clydesdale, Ltd., 225, Upper Thames St., E.C. ..    |  | Central 1070                      | Rowson, Cent., London     |
| Rowse & Co., 1, Dawson St., Whitechapel, Liverpool ..                   |  | [Royal 838                        | Prominent, Liverpool      |
| 1 4 16 27 Royce Ltd., Trafford Park, Manchester                         |  | Trafford Park 690, 691 & 693      | Switch, Manchester        |
| 1 3 4 Royles, Limited, Irlam, near Manchester ..                        |  | { Urnston 68<br>Manchester 6718 } | Elyor, Cadishead          |
| Rudge-Whitworth, Ltd., Sparkhill, Birmingham ..                         |  | Acocks Green 191                  | Sphere, Birmingham        |
| Russell G., & Co., Ltd., Motherwell, N.B. ..                            |  | .. 4                              | Russell, Motherwell       |
| 1 2 Russell John, & Co., Ltd., Alma Tube Works, Walsall ..              |  | .. 34                             | Alma, Walsall             |
| 1 2 Russell John, & Co., Ltd., New Spring St., Birmingham               |  | Central 1401                      | Belmont, Birmingham       |
| Russell John G., Clydesdale Nail Works, Wishaw, Scotland ..             |  | .. 42                             | Dogslike, Wishaw          |
| 4 16 20 Ruston & Hornsby, Ltd., Sheaf Ironworks, Lincoln ..             |  | .. 580-585                        | Ruston, Lincoln           |

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| 1 2 3 6                         | Ruston & Hornsby, Ltd., Spittlegate Ironworks, Grantham                             | 120                           | Hornsby, Grantham           |
| 1 2 3 6                         | Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4                              | City 4314-5                   | Ruston, Cannon, London      |
| 1 4 16 33                       | Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.                                     | Lawndale 1                    | Ryson, Chicago              |
| <hr/>                           |                                                                                     |                               |                             |
|                                 | St. George's Engineering Co., Brearley St., Birmingham                              | Central 62                    | Pinlons, Birmingham         |
| 1 16                            | Salter, Geo., & Co., Ltd., West Bromwich, England                                   | W. Bromwich 216               | Salters, West Bromwich      |
| 1                               | Sands Geo. & Son, Ltd., Colwick, Nottingham                                         | Nottingham 977                | Sands, Colwick, Nottingham  |
| 1 5 19 20                       | Sandycroft Limited, Chester                                                         | Connahs Quay 2                | Sandycroft, Hawarden        |
| 1                               | Sankey Joseph, & Sons, Ltd., Wellington, Shropshire                                 | Wellington 66                 | Sankey, Wellington, Salop   |
| 1                               | Savery T. A. & Co., Ltd., Newcomen Works, Birmingham                                | Central 3599                  | Newcomen, Birmingham        |
|                                 | Scarab Oil Burning Co., Ltd., 28, Charles St., Haymarket, S.W. 1.                   | Regent 4833                   | Escarabel, Charles, London  |
|                                 | Schneider & Cie., 30, Victoria St., S.W. 1                                          | Victoria 9844                 | —                           |
| 1                               | Scott Bros. (Keighley), Albion Works, Keighley                                      | Keighley 381                  | Scott, Keighley, 381        |
|                                 | Scott David, Polmadie, Glasgow                                                      | —                             | Hydrogen, Glasgow           |
|                                 | Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C. 4                           | City 8257                     | Printeries, Cent., London   |
|                                 | Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr, Scotland             | Ayr 166                       | Stampings, Ayr              |
| 2 4 16                          | Scottish Tube Co., Ltd., 34, Robertson St., Glasgow                                 | { Central 5687<br>Six Lines } | Scotube, Glasgow            |
| 1 27                            | Scout Motors, Ltd., Churchfields, Salisbury                                         | .. 274 & 275                  | Scout, Salisbury            |
| 1 6                             | Seagers, Ltd., Dartford                                                             | Dartford 26                   | Seagers, Dartford           |
|                                 | Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C. 4                        | { City 440<br>Gerrard 2889 }  | Selsoneer, Cent., London    |
|                                 | Selwyn James & Co., 20, Essex St., Strand, W.C.                                     | —                             | —                           |
| 1 8                             | Semple Robert, 179, West George St., Glasgow                                        | Central 9980 & 9981           | Moderate, Glasgow           |
| 1 16                            | Serec Radiators, Ltd., Warwick Rd., Greet, Birmingham                               | Victoria 531                  | Nerleak, Birmingham         |
|                                 | Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow                       | 31                            | Shanks, Johnstone           |
| 1 4 16                          | Shaw John, & Sons (Wolverhampton), Ltd., Wolverhampton                              | .. 858                        | Shaw, Wolverhampton         |
|                                 | Shaw W., & Co., Wellington Cast Steel Foundry, Middlesbrough-on-Tees                | 106                           | Wellington, Middlesbrough   |
| 1 4                             | Shepard Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.                     | —                             | Shepholst                   |
|                                 | Shore Instrument & Mfg. Co., Van Wyck Avenue & Carll St., Jamaica, New York, U.S.A. | Chelsea 3253                  | Shoreinst, New York         |
| 1                               | Shore Thos., & Sons, Ltd., Btruria, Stoke-on-Trent                                  | .. 74                         | Pumps, Stoke-on-Trent       |
| 1                               | Showell B., & Sons, Ltd., Stirchley, Birmingham                                     | King's Norton 95 & 96         | Showell, Stirchley          |
| 16 36                           | Shuster F. B., Co. (The), New Haven, Conn., U.S.A.                                  | .. 2460                       | Adt, Newhaven, U.S.A.       |
| 1 2                             | Siebe, Gorman & Co., Ltd., Neptune Works, London, S.E.                              | Hop 3401                      | Siebe, Lamb, London         |
| 1 2 3                           | Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 18.                               | { City 6400<br>Seven Lines }  | Siemens, Woolwich           |
| 4 5 16                          | 1 16 Simon-Carves, Ltd., 20, Mount St., Manchester                                  | .. City 8200                  | Simcar, Manchester          |
| 1 1 33                          | Simons W., & Co., Ltd., Renfrew, Scotland                                           | .. 3                          | Simons, Renfrew             |
|                                 | Sisson W., & Co., Ltd., Gloucester                                                  | .. 57                         | Sisson, Gloucester          |
|                                 | Skefko Ball Bearing Co., Ltd., Skefko Works, Luton                                  | Luton 418                     | Skefko, Luton               |
| 1 4 16 33                       | Skinner Chuck Co., 139, Queen Victoria St., E.C. 4                                  | Central 1194                  | Scythes, Cent., London      |
| 4                               | Slough Trading Co., Ltd., Slough, Bucks.                                            | Slough 240                    | Sloudeplm, Slough           |
| 1                               | Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.                                  | .. Park 4519                  | Sleeper, Worcester, Mass.   |
|                                 | Smedley Bros., Ltd., Belper, Derbyshire                                             | .. 12                         | Smedleys, Belper            |
|                                 | Smethwick Stamping Co., Bridge St., Smethwick, Staffs.                              | Smethwick 13                  | Droforg, Smethwick          |
| 1 4 16 33                       | Smith F. L., & Co., Ltd., 20, Essex St., W.C. 2                                     | Central 2126                  | Chalkiness, Estrand, London |
|                                 | Smit L. & Zoons, Scheeps-en-Werktuigbouw, Kinderdijk, near Rotterdam, Holland       | .. 1877                       | Smidszoon, Kinderdijk       |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.  
6 Private. 8 International. 11 Scott's. 16 Western Union. 19 Universal  
Mining. 20 McNeill's. 27 Marconi Wireless. 33 Bentley's. 36 Postal.

| NAME AND ADDRESS OF ADVERTISER. |                                                                                             | TELEPHONE NUMBER.       | TELEGRAPHIC ADDRESS.              |
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| 1 16 27                         | Smith, Barker & Willson, Ltd., Halifax .. ..                                                | Halifax 46              | Lathe, Halifax                    |
| 1 27                            | Smith Bros. & Co. (Hyson), Ltd., Hyson Green Works, Nottingham .. ..                        | 1516                    | Hyson, Nottingham                 |
|                                 | Smith Bros & Hill, Ltd., Albert Spring Works, West Bromwich .. ..                           | 123                     | Spring, West Bromwich             |
| 1 4 16 27                       | Smith & Coventry, Ltd., Gresley Ironworks, Manchester .. City 8160                          | Gresley, Manchester     |                                   |
|                                 | Private Branch Exchange.                                                                    |                         |                                   |
|                                 | Smith E. J., & Co., King's Rd., Hay Mills, Birmingham                                       | Victoria 584            | —                                 |
| 1 4 27                          | Smith, H. W., & Co. (1920), Ltd., Central House, Kingsway, W.C. 2 .. ..                     | Regent 2368             | Virwires, Westcent., London       |
|                                 | Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston ..                                     | P.O. 19                 | Grace, Thrapston                  |
| 3                               | Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow                                       | Douglas 2659            | Possil, Glasgow                   |
| 1                               | Smith & Pearson, Ltd., Newcomen Ironworks, Dublin ..                                        | 1499                    | Pearson, Dublin                   |
| 1                               | Smith S., & Sons, Ltd., Grand Hotel Buildings, Trafalgar Sq., W.C. ...                      | Gerrard 2830            | Ruspoli, London                   |
|                                 | Smith Sydney & Sons (Nottingham), Ltd., Nottingham                                          | 1537                    | Smiths, Nottingham                |
| 1                               | Smith Thos., & Sons, (Rodley), Ltd., Steam & Electric Crane Works, Rodley, near Leeds .. .. | Stanningley 13 & 18     | Smith, Rodley                     |
| 16                              | Smulders A. F., Schiedam, Rotterdam, Holland .. ..                                          | 194                     | Smulders, Schiedam                |
| 1                               | Société Genevoise d'Instruments de Physique, 95, Queen Victoria St., E.C.4 .. ..            | Central 7841            | Sogenique, Cent., London          |
| 4 16                            | Sokal S., I, Great James St., Bedford Row, W.C.1 ..                                         | Holborn 4515            | Sokalsig, London                  |
| 1                               | Somers Walter, Ltd., Halesowen .. ..                                                        | Halesowen 85            | Somers, Halesowen                 |
|                                 | Somerville-Barnard Construction Co., Ltd., Archangel Works, New Cross, S.E. 14 .. ..        | New Cross 828           | —                                 |
|                                 | Southern James W., & Son, Ltd., Store St., Manchester                                       | Central 253 & 4600      | Lignum, Manchester                |
|                                 | Soxol, Ltd., 20, Copthall Ave., E.C. 2 .. ..                                                | London Wall 6940        | Yusozol, Ave., London             |
|                                 | Spartan Tool Works, Hartford, Conn., U.S.A.                                                 | —                       | —                                 |
| 1 4 16                          | Sparklets & General Mfg. Co., Ltd., Angel Rd., Edmonton, N.18                               | Tottenham 37 & 60       | Tottlane, London                  |
| 1 4                             | Spencer-Boncourt, Ltd., Parliament Mansions, Victoria St., S.W. 1 .. ..                     | Victoria 5563           | Boncourt, Phone, London           |
|                                 | Spencer John, Ltd., Wednesbury .. ..                                                        | 4 (Two Lines)           | Tubes, Wednesbury                 |
| 1 4                             | Spencer, W. H., & Co., Hitchin, Herts. ...                                                  | Hitchin 5               | Engine, Hitchin                   |
|                                 | Spon B. & F. N., Ltd., 57, Haymarket, S.W. .. ..                                            | Gerrard 3450            | Fenspon, Charles, London          |
|                                 | Staffordshire Tube Co., Ltd., Edmund St., Birmingham                                        | Central 6456 & 6447     | Unbeaten, Birmingham              |
| 1 27                            | Standard & Oswald Stott (Engineers), Ltd., Leicester                                        | Leicester 4761-3        | Blowing, Leicester                |
| 1                               | Standard Piston Ring & Engineering Co., Premier Works, Don Rd., Sheffield .. ..             | 2149                    | Ocean, Sheffield                  |
| 16 33                           | Stead J., & Co., Ltd., Manor Works, Sheffield .. ..                                         | Central 3112            | Steadfast, Sheffield              |
|                                 | Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester .. ..        | Central 1645            | Sealfield, Manchester             |
| 1 27                            | Steel Belt Conveyors, Ltd., Norwich Union Chambers, Birmingham .. ..                        | Central 5454            | Simplicity, Birmingham            |
| 1 2 3                           | Steel Company of Scotland, Limited, 23, Royal Exchange Square, Glasgow .. ..                | City 9436<br>Four Lines | Steel, Glasgow                    |
|                                 | Steel Construction Co., Ltd., Craighall Ironworks, Glasgow                                  | Douglas 3821            | Devlers, Glasgow                  |
| 1                               | Steel Pipe Company, Ltd., Kirkcaldy, N.B. .. ..                                             | 95                      | Aquilinus, Kirkcaldy              |
|                                 | Steinle Turret Machine Co., 53, Victoria St., S.W. ..                                       | Victoria 6175           | Steinle, 53, Victoria St., London |
| 1 3 33                          | Stephenson Robert & Co., (1914) Ltd., Darlington ..                                         | 2790                    | Rocket, Darlington                |
|                                 | Sterling Metals, Ltd., Coventry .. ..                                                       | Coventry 881            | Stermet, Coventry                 |
| 1                               | Sterne L., & Co., Ltd., Crown Ironworks, Glasgow ..                                         | Douglas 1064-1066       | Crown, Glasgow                    |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
16 Western Union. 22 Marconi 27 Wireless Engineering Standards 33 Bentley's.

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|------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|
| 1 <b>Sterne L., &amp; Co., Ltd.</b> , Donington House, Norfolk St., W.C. [Gerrard 1969                                 |                   | <b>Elsterne, London</b>             |
| 1 16 <b>Sterns, Ltd.</b> , Royal London House, Finsbury Sq., E.C. London Wall 3797                                     |                   | <b>Centumvir, Phone, London</b>     |
| <b>Steven A. &amp; P.</b> , 181, St. James Rd., Glasgow .. .. Bell 2171                                                |                   | <b>Provanale, Glasgow</b>           |
| <b>Steven &amp; Struthers</b> , Kelvinhaugh, Glasgow .. .. Western 3375-6                                              |                   | <b>Bronze, Glasgow</b>              |
| <b>Stevens, Clement, Pneumatic Engineering Co., Ltd.</b> , 28, Spenser St., Buckingham Gate, S.W. 1 .. .. Victoria 330 |                   | <b>Pneuclete, Sowest, London</b>    |
| 1 246 16 <b>Stewart Duncan, &amp; Co., Ltd.</b> , London Rd. Ironworks, Glasgow Bridgeton 271, 3243 & 3244             |                   | <b>Stewart, Glasgow</b>             |
| 1 16 <b>Stewart, J. and W.</b> , 12, Berkeley St., W. 1 .. .. Mayfair 346                                              |                   | <b>Cymplecks, Pley., London</b>     |
| 3 5 <b>Stewarts &amp; Lloyds, Ltd.</b> , 41, Oswald St., Glasgow .. .. City 9880                                       |                   | <b>Lapweid, Glasgow</b>             |
| 1 3 5 <b>Stewarts &amp; Lloyds, Ltd.</b> , Broad St. Chambers, Birmingham [Midland 1224                                |                   | <b>Lloyds, Birmingham</b>           |
| <b>Stokes A., &amp; Co.</b> , Green St., Birmingham .. .. Midland 356                                                  |                   | <b>Stokes, Derikend, Birmingham</b> |
| <b>Stokes Castings, Ltd.</b> , Mansfield .. .. .. 37                                                                   |                   | <b>Castings, Mansfield</b>          |
| 1 <b>Stone, J., &amp; Co., Ltd.</b> , Deptford, S.E. .. .. New Cross 1202                                              |                   | <b>Tostones, Deptmark, London</b>   |
| 1 16 <b>Stone J. B., &amp; Co., Ltd.</b> , 135, Finsbury Pavement, B.C. .. Central 1848                                |                   | <b>Sightseer, London</b>            |
| <b>Stothert &amp; Pitt, L.J.</b> , Bath .. .. .. Bath 987                                                              |                   | <b>Stothert, Bath</b>               |
| <b>Stothert &amp; Pitt, Ltd.</b> , 38, Victoria St., S.W. .. .. Victoria 1949                                          |                   | <b>Stothert, Vic., London</b>       |
| 1 <b>Stringer &amp; Co. (Sheffield), Ltd.</b> , Sheffield .. .. Attercliffe 22                                         |                   | <b>Stringer, Wincobank</b>          |
| <b>Stringer Bros.</b> , West Bromwich, South Staffs. .. West Bromwich 1                                                |                   | <b>Stringer, West Bromwich</b>      |
| <b>Sturtevant Eng. Co., Ltd.</b> , 147, Queen Victoria St., B.C. Central 7121                                          |                   | <b>Sturtevant, London</b>           |
| <b>Sudron Thos., &amp; Co., Ltd.</b> , Stockton-on-Tees Stockton-on-Tees 63                                            |                   | <b>Sudrons, Stockton-on-Tees</b>    |
| <b>Sugden T., Ltd.</b> , 180, Fleet St., B.C. .. .. Holborn 186                                                        |                   | <b>Tubularity, Fleet, London</b>    |
| 1 2 4 16 <b>Sulzer Brothers</b> , 31, Bedford Square, W.C. 1 .. Museum 4848                                            |                   | <b>Gebensner, London</b>            |
| 1 <b>Summers &amp; Payne, Ltd.</b> , Southampton .. Southampton 118                                                    |                   | <b>Paynes, Southampton</b>          |
| 1 <b>Summerson Thomas, &amp; Sons, Ltd.</b> , Darlington .. 2660                                                       |                   | <b>Summerson, Darlington</b>        |
| <b>Swan Shipbuilding Co.</b> , 1428 So. Penn Square, Philadelphia, Pa., U.S.A. .. .. ..                                |                   |                                     |
| <b>Superheater Corporation, Ltd.</b> , 14, New Burlington St., W. 1 .. .. .. Gerrard 3822                              |                   | <b>Locosuper, Phone, London</b>     |
| <b>Superheater Units, Ltd.</b> , 4, Castle Square, Swansea .. Central 1396                                             |                   | <b>Superunits, Swansea</b>          |
| <b>Sutcliffe Bros.</b> , Globe Works, Hyde .. .. Hyde 70                                                               |                   | <b>Sutcliffe Bros., Hyde</b>        |
| <b>Sutcliffe Ventilating and Drying Co., Ltd.</b> , Cathedral Gates, Manchester .. .. City 3920                        |                   | <b>Ventilabro, Manchester</b>       |
| 1 4 <b>Swift George, &amp; Sons, Ltd.</b> , Range Bank, Halifax .. .. 497                                              |                   | <b>Swiftly, Halifax</b>             |
| <b>Swiss Machine Tool Works</b> , Oerlikon, Switzerland Zurich 7245 & 6744                                             |                   | <b>Outil, Oerlikon</b>              |
| 1 <b>Swinney Bros., Ltd.</b> , Morpeth .. .. Morpeth 92                                                                |                   | <b>Swinney, Morpeth</b>             |
| 6 16 <b>Swedish General Electric, Ltd.</b> , 5, Chancery Lane, W.C. 2.. Holborn 1703                                   |                   | <b>Autosynero, Fleet, London</b>    |
|                                                                                                                        |                   |                                     |
| 6 <b>Tangyes, Ltd.</b> , Cornwall Works, Birmingham .. .. Central 6460                                                 |                   | <b>Tangyes, Birmingham</b>          |
| 6 <b>Tangyes, Ltd.</b> , 35, Queen Victoria St., B.C. .. City 5024 (Two Lines)                                         |                   | <b>Tangyes, London</b>              |
| <b>Tasker's Engineering Co., Ltd.</b> , Sheffield 1005, 1981 & 971                                                     |                   | <b>Stores, Sheffield</b>            |
| 1 <b>Tattersall A. A. &amp; Co.</b> , Blackburn .. .. Blackburn 6273                                                   |                   | <b>Vitundum, Blackburn</b>          |
| 1 <b>Taylor &amp; Challen, Ltd.</b> , Derwent Foundry, Birmingham Central 376                                          |                   | <b>Derwent, Birmingham</b>          |
| 1 <b>Taylor Charles (Birmingham), Ltd.</b> , Bartholomew Sq., Birmingham .. .. Central 6373, 6374, 6375                |                   | <b>Lathes, Birmingham</b>           |
| 1 6 <b>Taylor &amp; Hubbard</b> , Leicester .. .. 575                                                                  |                   | <b>Lifting, Leicester</b>           |
| <b>Terry Herbert, &amp; Sons, Ltd.</b> , Redditch .. .. Three Lines 61                                                 |                   | <b>Spring, Redditch</b>             |
| <b>Terry Steam Turbine Co.</b> , Hartford, Conn., U.S.A. .. ..                                                         |                   |                                     |

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Morsing's. 6 Private.  
16 Western Union. 27 Marconi.

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| Thermotank Co., 55, West Regent St., Glasgow ..                               |                                                                               | Douglas 2324        | Thermotank, Glasgow        |
| 4 16                                                                          | Thomas & Bishop, 37, Tabernacle St., B.C. 2 ..                                | Central 7046        | Vecling, London            |
| 1                                                                             | Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston ..       | .. Bilston 19       | Thompson Bros., Bilston    |
| 1 3 4 6 16                                                                    | Thompson John, Water Tube Boilers, Ltd., Wolverhampton ..                     | Wolverhampton 1138  | Watertube, Wolverhampton   |
| 1 3 4 6 16                                                                    | Thompson John (Wolverhampton), Ltd., Wolverhampton ..                         | 1138 & 1139         | Boiler, Wolverhampton      |
| 1 3                                                                           | Thornycroft J. I., & Co., Ltd., 10, Grosvenor Place, S.W. 1 ..                | .. Victoria 8000    | Thornycroft, Vic., London  |
| 1 3                                                                           | Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W. [Gerrard 9219 | ..                  | Manageable, London         |
| 1 3                                                                           | Thornycroft J. I., & Co., Ltd., Basingstoke, Hants. ..                        | .. 39               | Thornycroft, Basingstoke   |
| 1 3                                                                           | Thornycroft J. I., & Co., Ltd., Woolston, Southampton ..                      | .. 415              | Thornycroft, Southampton   |
| Tickle John, & Co., Ltd., Providence Works, West Bromwich ..                  |                                                                               | West Bromwich 335   | —                          |
| Tilghman's Patent Sand Blast Co., Broadheath, near Manchester ..              |                                                                               | .. —                | Tilghmans, Altrincham      |
| 1 4 27                                                                        | Tilling-Stevens Motors, Ltd., Maidstone ..                                    | .. Maidstone 117    | Petelobus, Maidstone       |
| 1                                                                             | Timbrell & Wright Machine Tool & Eng. Co., Ltd., Birmingham ..                | Central 3723        | Revolving, Birmingham      |
| Tinker, Shenton & Co., Ltd., Hyde, near Manchester ..                         |                                                                               | Ashton-u-Lyne 21    | Duplex, Hyde               |
| Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham ..           |                                                                               | .. East 248         | Tomey, Birmingham          |
| Tranter W. J., Ltd., Tipton, Staffordshire ..                                 |                                                                               | .. Tipton 76        | Titan, Tipton              |
| 1 11                                                                          | Trewent F. J., & Proctor, Ltd., 4, Billiter Buildings, Billiter St., B.C. ..  | .. Avenue 121       | Trewent, London            |
| Trier Bros., Ltd., 36, Victoria St., Westminster, S.W. 1 ..                   |                                                                               | .. Victoria 900     | Viscosity, Vic., London    |
| Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. ..                 |                                                                               | Roxbury 3710 & 3711 | Triwrench, Roxbury.        |
| Triumph Stoker, Ltd., Kirkstall Rd., Leeds ..                                 |                                                                               | .. Central 2184     | Stoker, Leeds              |
| 1 2 3                                                                         | Tubes, Ltd., Birmingham ..                                                    | .. East 871 & 873   | Cylinders, Birmingham      |
| Tubi-Togni, Ltd., Brescia, Italy ..                                           |                                                                               | .. —                | —                          |
| 1 4                                                                           | Tuck & Blakemore, Ltd., Coventry ..                                           | .. Coventry 149     | Tuck Blakemore, Coventry   |
| Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow ..                     |                                                                               | .. 4                | Tullis, Clydebank          |
| Tullis D. & J., Ltd., 1, Southwark Bridge Buildings, S.E. ..                  |                                                                               | Central 706         | Kilbowie, London           |
| 1 2                                                                           | Tullis John, & Sons, Ltd., St. Ann's Leather Works, Glasgow ..                | Bridgeton 1205-6    | Tullis, Glasgow            |
| 1 33                                                                          | Turbine Gears, Ltd., Hyde, Cheshire ..                                        | .. Hyde 41          | Gears, Hyde                |
| Turbine (Patent) Furnace Co., Ltd., 5, Budge Row, E.C. 4 ..                   |                                                                               | .. City 7467        | Asunder, Cannon, London    |
| 1 6                                                                           | Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow ..                         | .. 4394             | Valve, Glasgow             |
| Turner Bros. Asbestos Co., Ltd., Rochdale ..                                  |                                                                               | .. 941              | Turners, Rochdale          |
| 1 4 16                                                                        | Turton T., & Sons, Ltd., Sheaf Works, Sheffield ..                            | .. 1063             | Turtons, Sheffield         |
| Twell's Patent Valve Gear (Duplex Pump) Co., 25, Millstone Lane, Leicester .. |                                                                               | .. —                | —                          |
| Uehling Instrument Co., 2020, Empire Building, New York, U.S.A. ..            |                                                                               | —                   | Uehlineo, New York         |
| 1 4 6                                                                         | Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., B.C. 4 ..        | .. City 6131        | Horsepower, Cannon, London |
| .. .. ..                                                                      |                                                                               | .. ..               | .. Two Lines               |
| 1 4 6                                                                         | Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester ..   | .. City 5640        | Strength, Manchester       |
| .. .. ..                                                                      |                                                                               | .. ..               | .. Two Lines               |

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6 Private. 11 Scott's. 16 Western Union. 27 Marconi. 33 Bentley's.

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| 1 11 16 27                      | United Transit Co., 381, Argyle St., Glasgow..                                  | Central 9395            | Transit, Glasgow              |
|                                 |                                                                                 | Private Branch Exchange |                               |
| 1 4                             | United Brassfounders & Engineers, Ltd., Cornbrook, Manchester ..                | Central 3134            | Stork, Manchester             |
| 4                               | United Hammer Co., Boston, Mass, U.S.A. ..                                      | —                       | Fairhammer, Boston            |
|                                 | United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne ..         | 1938                    | Impression, Newcastle-on-Tyne |
| 1 4                             | United States Metallic Packing Co., Ltd., Soho Works, Allerton Rd., Bradford .. | 4705 & 4706             | Metallic, Bradford            |
| 1 2 16 19                       | United States Rubber Co., Ltd., 47 & 48, Farrington St., E.C.4 ..               | Central 8255            | Khartoum, Cent., London       |
|                                 | 1 United Water Softeners, Ltd., Imperial House Kingsway, W.C.2. ..              | Regent 5270             | Aquadolce, Estrand, London    |
| 1 33                            | Universal Grinding Wheel Co., Ltd., Universal Works, Stafford                   | Stafford 287 & 132      | Lightning, Stafford           |
| 1 2 4 16                        | Universal Machinery Corporation, Ltd., 326, Old St., E.C. 2                     | Clerkenwell 1442        | Toolcraft, London             |
|                                 | Universal Valve & Chemical Accessories Co., Dudley Hill, Bradford ..            | Dudley Hill 56          | Became, Dudley Hill           |
| 1                               | Uskside Ironworks, Ltd., Newport, Mon. ..                                       | Newport 3921            | Uskside, Newport, Mon.        |
|                                 | Utting, S., 82, Victoria St., S.W. 1 ..                                         | Victoria 3694           | Umpteen, Sowest, London       |
| 2                               | Vacuum Brake Co., Ltd., 3 to 7, Old Queen St., S.W. 1                           | Victoria 3269           | Solution, Vic., London        |
| 1                               | Valor Co., Ltd., Aston Cross, Birmingham ..                                     | East 253                | Valor, Birmingham             |
| 1 2 4 16                        | Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W. 1                     | Victoria 4361           | Varispeed, Vic., London       |
|                                 | 1 Vaughan Crane Co., Ltd., Openshaw, Manchester ..                              | Openshaw 256            | Vaunting, Manchester          |
|                                 |                                                                                 | Central 5113            |                               |
| 1 4                             | Vermot, Ch., Valere, Mabilie & R. Pilgrims, Ltd., 83, Victoria St., S.W. 1 ..   | Victoria 337            | Ironfisted Vic., London       |
|                                 | Vibration Speciality Co., Harrison Buildings, Philadelphia, U.S.A., ..          | —                       | —                             |
| 2                               | Vickers Ltd., River Don Works, Sheffield ..                                     | Central 3200            | Vickers, Sheffield            |
| 2                               | Vickers Ltd., Vickers House, Broadway, Westminster, S.W. (Gerrard 10110         |                         | Vickers, London               |
| 1 16                            | Vickers-Petters, Ltd., 117-123, Great Portland St., W. 1. Mayfair 6901          |                         | Escapable, Wcdo., London      |
|                                 | Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh [Leith 328          |                         | Shells, Edinburgh             |
| 1                               | Vesper & Co., Ltd., Broad St., Portsmouth ..                                    | 2137                    | Repsov, Portsmouth            |
| 1 4                             | Wadkin & Co., London St., Leicester ..                                          | 3614                    | Woodworker, Leicester         |
| 1                               | Wake John Frederick, 123, Victoria Rd., Darlington ..                           | 75                      | Wake, Darlington              |
| 1 2                             | Wakefield C. C., & Co., Wakefield House, Cheapside, E.C.                        | Central 11305 & 13466   | Cheery, Cent, London          |
|                                 | 1 Walber W. A., & Co., 38, Victoria St., Westminster, S.W. Victoria 3190        |                         | Vilvalle, London              |
|                                 | Walford, T. J., 119, Charles Henry St., Birmingham ..                           | Midland 723             | —                             |
| 1 4 5 16                        | Walker Bros. (Wigan), Ltd., Pagefield Ironworks, Wigan ..                       | Wigan 14                | Pagefield, Wigan              |
|                                 | Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E. [East 4253       |                         | Lioncelle, Pop., London       |
|                                 | Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs. 1197               |                         | Belting, Bolton               |
| 1 33                            | Wallsend Slipway & Engineering Co., Ltd., Wallsend                              | { Wallsend 117          | Wall, Newcastle-on-Tyne       |
|                                 |                                                                                 | City 412                |                               |
|                                 | Wallwork Henry, & Co., Ltd., Manchester ..                                      | City 8400               | Foundry, Manchester           |

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16 Western Union. 19 Universal 27 Marconi. 33 Bentley's.



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| Ward H. W., & Co., Ltd., Dale Rd., Selly Oak, Birmingham                               |  | Selly Oak 26                | Tudor, Birmingham              |
| Ward T. W., Ltd., Albion Works, Sheffield .. ..                                        |  | Central 4421                | Forward, Sheffield             |
| Watson, Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow                           |  | South 1700 }<br>Three Lines | Fugal, Glasgow                 |
| Waygood-Otis, Ltd., Falmouth Rd., S.E. .. ..                                           |  | Hop 4100                    | Waygood, Sedist, London        |
| Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                                    |  | [Stowmarket 22              | Webb, Combs                    |
| Webster & Bennett, Ltd., Foleshill, Coventry .. ..                                     |  | Coventry 221                | Profile, Coventry              |
| Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow                                    |  | [Langside 450               | Glweir, Glasgow                |
| Weldless Chains, Ltd., Gartsherrie, Coatbridge ..                                      |  | Coatbridge 112              | Weldless, Coatbridge           |
| Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                           |  | (Edgbaston 370              | Weldless, Birmingham           |
| Wellman Smith Owen Engineering Corporation, Ltd., King's House, Kingsway, W.C. 2 .. .. |  | Holborn 2588                | Principium, Westcent., London  |
| Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.                                |  | .. North 341                | Unbreakable, London            |
| Wells A. C., & Co., Carnarvon St., Cheetham, Manchester ..                             |  | City 1244                   | Unbreakable, Manchester        |
| Wells (Henry) Oil Co., 11, Haymarket, S.W. 1 .. ..                                     |  | Regent 878                  | Olhenwelco, London             |
| Werf Conrad, Haarlem, Holland .. ..                                                    |  | —                           | Werleconrad, Haarlem           |
| Wesson W., & Co., Ltd., Moxley, Wednesbury .. ..                                       |  | Wednesbury 62               | Iron, Wednesbury               |
| West H. J., & Co., Ltd., 72 & 74, Gray's Inn Rd., W.C. 1                               |  | City 3646                   | Frighly, Holb., London         |
| Western Wheelbarrow Co., Aurora, Illinois, U.S.A. ..                                   |  | .. Aurora 137               | Western, Aurora, Illinois      |
| Westinghouse Brake & Saxby Signal Co., Ltd., 82, York Rd., King's Cross, N. .. ..      |  | North 2416                  | Westinghouse, London           |
| Westinghouse Morse Chain Co., Ltd., The Chaineries, Letchworth, Herts .. ..            |  | Letchworth 33               | Chaindrive, Letchworth         |
| Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W. 15 .. ..     |  | Putney 1179                 | Westoleco, Putney, London      |
| Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, B.                               |  | East 4208                   | Westwood, Millicast, London    |
| Wharton H., Ltd., Station Rd., Reddish, Stockport                                      |  | Heaton Moor 408             | Attachment, Manchester         |
| Wheeler Condenser & Engineering Co., Carteret, N.J. U.S.A.                             |  | { Roosevelt<br>441-442 }    | Obispalla, N.Y., U.S.A.        |
| Whitaker D., 1, Union St., Leicester .. ..                                             |  | Central 2519                | Excavator, Leicester           |
| Whitakers (Engineers), Ltd., Horsforth, Leeds .. ..                                    |  | Horsforth 23A               | Excavators, Leeds              |
| White Patent Oil Burning Co., Ltd., Northumberland St., Newcastle-on-Tyne .. ..        |  | Central 5088                | Whitoli, Newcastle-on-Tyne     |
| White's Injectors, Ltd., Pendleton, Manchester .. ..                                   |  | Pendleton 58                | Whites, Pendleton, Manchester  |
| White H. B., & Co., John Dalton St., Manchester .. ..                                  |  | Central 5361                | Whiteness, Manchester          |
| White J. Samuel, & Co., Ltd., East Cowes, L.W. .. ..                                   |  | Cowes 3                     | White, East Cowes              |
| White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W. 1                           |  | North 2066                  | Saturation, Norwest, London    |
| White Rd., & Sons, Widnes, Lancs. .. ..                                                |  | 25                          | Ralls, Widnes                  |
| Widdowson John H., Britannia St., Salford, Manchester                                  |  | Trafford Park 420           | Taps, Salford                  |
| Wiggins F., & Sons, 102, 103 & 104, Minorities, B. .. ..                               |  | Avenue 2248                 | Wiggins, Minorities, London    |
| Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, near Bradford .. ..            |  | Shipley 354                 | Clutch, Shipley                |
| Wiley James, & Sons, Ltd., Darlaston .. ..                                             |  | Darlaston 83                | Wiley, Darlaston               |
| Willcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.                              |  | Hop 3740                    | Willcox, Southwark St., London |
| Willetts, Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs. .. ..           |  | .. Cradley 38               | Willetts Junr., Cradley Heath  |
| Williams J. H., & Co., 91, Richard St., Brooklyn, New York, U.S.A. .. ..               |  | —                           | Willrich, New York             |

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moring's  
6 Private. 16 Western Union. 21 Agar's Standard. 27 Marconi Wireless. 29 Mercury.  
33 Bentley's.

# 78 ADDRESSES, TELEGRAPHIC ADDRESSES, CODES AND TELEPHONE NUMBERS.

| NAME AND ADDRESS OF ADVERTISER. |                                                                                          | TELEPHONE NUMBER.                | TELEGRAPHIC ADDRESS.       |
|---------------------------------|------------------------------------------------------------------------------------------|----------------------------------|----------------------------|
|                                 | Wills, W. & F., Ltd., Bridgewater .. .. .                                                | 8                                | Wills, Bridgewater         |
|                                 | Wilt Twist Drill Co. of Canada, Ltd., Walkerville, Ontario, Canada .. .. .               | —                                | —                          |
| 4                               | Wilson J. H., & Co., Ltd., Dock Rd., Birkenhead .. .. .                                  | Birkenhead 1504                  | Engineers, Liverpool       |
| 1 6                             | Wilson William, & Co., Lilybank Boiler Works, Glasgow [Bridgeton 3045                    |                                  | Boiler, Glasgow            |
|                                 | Wincott G. P., Ltd., 180, Attercliffe Rd., Sheffield .. .. .                             | Central 590                      | Wincott, Sheffield         |
|                                 | Winn Charles, & Co., Granville Place, Birmingham [Midland 366 & 1437                     |                                  | Winn, Birmingham           |
|                                 | Winn W. Martin, & Co., Station Works, Darlaston .. .. .                                  | Darlaston 73                     | Accuracy, Darlaston        |
|                                 | Wisconsin Electric Co., Racine, Wisconsin, U.S.A. .. .. .                                | 3591                             | Dunmore, Racine            |
|                                 | Witton-Kramer Electric Tool & Holst Works, Witton, Birming-<br>ham .. .. .               | East 201                         | Polyphase, London          |
| 1 4                             | Wolseley Motors Ltd., York St., S.W. .. .. .                                             | Victoria 6220                    | Autovent, Vic., London     |
|                                 | Wolseley Motors Ltd., Adderley Park, Birmingham .. .. .                                  | Central 4361                     | Exactitude, Birmingham     |
| 1 2 16 33                       | Wolverhampton Corrugated Iron Co., Ltd., Ellesmere Port, Nr.<br>Birkenhead .. .. .       | Ellesmere Port 32                | Corrugated, Ellesmere Port |
| 1 4 16 33                       | Wonham, Bates & Goode (Inc.), 3, London Wall<br>Buildings, E.C. .. .. .                  | London Wall 5591                 | Antecus, London            |
| 1                               | Wood Henry, & Co., Ltd., Saltney, Nr. Chester .. .. .                                    | Chester 589                      | Wood, Saltney              |
|                                 | Wood Hugh, & Co., Ltd., 65, Fenchurch St., E.C. .. .. .                                  | Avenue 1545                      | Huwood, Fen., London       |
|                                 | Woodite Company, Mitcham Common, Surrey .. .. .                                          | Mitcham 1502                     | Woodite, Mitcham           |
| 1 2 3 4                         | Worthington-Simpson, Ltd., Queen's House, Kingsway, W.C.;<br>Holborn 3048, 3049 and 3050 | Central 2169                     | Pumping, Westcent, London  |
|                                 | Wright John, & Co., Essex Works, Aston, Birmingham .. .. .                               | Central 2169                     | Eureka, Birmingham         |
| 1 3 6                           | Wright's Forge & Engineering Co., Ltd., Tipton, Stafford-<br>shire .. .. .               | .. Tipton 32                     | Wright, Tipton             |
| 6                               | Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate,<br>E.C. .. .. .                 | .. Wall 6585                     | Penetration, London        |
| 4 16                            | Wrigley E. G., & Co., Ltd., Foundry Lane Works, {<br>Birmingham .. .. .                  | Smethwick 148 }<br>Three Lines } | Cutters, Birmingham        |
|                                 | Yale & Towne Manufacturing Co., 15, Mallow St., Old St.,<br>E.C. 1 .. .. .               | Clerkenwell 1760                 | —                          |
| 3                               | Yarrow & Co., Ltd., Glasgow .. .. .                                                      | Western 2082                     | Yarrow, Glasgow            |
| 3                               | Yates & Thom, Ltd., Canal Works, Blackburn .. .. .                                       | .. 43 & 345                      | Yates, Blackburn           |
| 1 4 11 16                       | Yorkshire Copper Works, Ltd., Leeds .. .. .                                              | 20031                            | Tubes, Leeds               |
| 1                               | Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield<br>Attercliffe 129-30       |                                  | Engine, Sheffield          |
|                                 | Young Daniel, Witney, Oxfordshire .. .. .                                                | .. Witney 11                     | Young, Witney              |
| 4 25                            | Youngs, Ryland St. Works, Birmingham .. .. .                                             | Midland 301                      | Oldens, Birmingham         |
| 1                               | Zenith Carburettor Co., Ltd., 40-42, Newman St., W. 1 .. .. .                            | Museum 4812                      | Zenith, Regent, London     |
| 1                               | Zeehout J., Jzn., Zeestraat 88, The Hague, Holland .. .. .                               | —                                | Zeehout, Haag, Holland     |

Telegraphic Codes in use 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.  
11 Scott's. 18 Western Union 25 Premier. 27 Marconi. 33 Bentley's.

# KEY TO TELEGRAPHIC ADDRESSES.

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                              |
|---------------------------------|------------------------------------------------------------------------------|
| Abbey, Lincoln .. ..            | .. Clayton Wagons, Ltd., Abbey Works, Lincoln.                               |
| Abbott, Newark .. ..            | .. Abbott & Co. (Newark), Ltd., Newark-on-Trent                              |
| Accuracy, Darlston ..           | .. Winn W. Martin, & Co., Station Works, Darlston                            |
| Accelerator, Sowerth, London .. | .. Allen-Liversidge, Ltd., 106, Victoria St., S.W.                           |
| Achilles, Glasgow .. ..         | .. London Brothers, Ltd., 39, West Campbell St., Glasgow                     |
| Achineel, Bethroad, London ..   | .. Machinery & Steels, Ltd., 64, Great Eastern St., E.C. 2                   |
| Ackbridge, Phone, London ..     | .. Hackbridge Cable Co., Ltd., 15, Victoria St., S.W. 1                      |
| Ackworthle, Birmingham ..       | .. Ackworthle John, Ltd., 51 & 54, Coleshill St., Birmingham                 |
| Adamite, Pittsburg .. ..        | .. Pittsburgh Iron & Steel Foundries Co., Pittsburgh, Penna., U.S.A.         |
| Adamson, Dukinfield .. ..       | .. Adamson Daniel, & Co., Ltd., Dukinfield                                   |
| Adaptable, Birmingham ..        | .. Adaptable Moulding Machine Co., Stanhope St., Birmingham                  |
| Adopted, Strat., London .. ..   | .. Grover & Co., Ltd., Carpenters Rd., Stratford, B.                         |
| Adroit, Dudley Hill .. ..       | .. Newton, Bean & Mitchell, Dudley Hill, Bradford                            |
| Adv, Newhaven, U.S.A. ..        | .. Shuster F. B. Co., Newhaven, Conn., U.S.A.                                |
| Aerography, London .. ..        | .. Aerograph Co., Ltd., 43, Holborn Viaduct, E.C.                            |
| Aico, Glasgow .. ..             | .. Anderson Foundry Co., Ltd., 100, Cheapside St., Glasgow                   |
| Agenciador (10), London ..      | .. Patent Lightning Crusher Co., Ltd., 14a, Rosebery Avenue, B.C.            |
| Agroengic, Westcent, London ..  | .. Agricultural & General Engineers, Ltd., Central House, Kingsway, [W.C. 2] |
| Airstyle, Fleet, London .. ..   | .. Airstyle & Lithos, Ltd., 35, St. Bride St., Ludgate Circus, E.C.          |
| Ajank, Manchester .. ..         | .. Dunkerley C. C., & Co., Ltd., Store St., Manchester                       |
| Ajax, Glasgow .. ..             | .. Bennie James & Sons, Ltd., Clyde Engine Works, Govan, Glasgow             |
| Alexson, Leeds .. ..            | .. Alexander, Herbert, & Co., Ltd., Leeds                                    |
| Alldays, Birmingham .. ..       | .. Alldays & Onions, Ltd., Birmingham                                        |
| Allen, Sheffield .. ..          | .. Allen Edgar & Co., Ltd., Imperial Steel Works, Sheffield                  |
| Alley, Glasgow .. ..            | .. Alley & Maclellan, Ltd., Sentinel Works, Glasgow                          |
| Alloy, Newcastle-upon-Tyne ..   | .. Newcastle Alloy Co., Ltd., Milburn House, Newcastle-on-Tyne               |
| Allports .. ..                  | .. American Steel Export Co., Woolworth Building, New York, U.S.A.           |
| Alma, Walsall .. ..             | .. Russell John, & Co., Ltd., Alma Tube Works, Walsall                       |
| Alroyan, Cannon, London ..      | .. Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C.              |
| Amarilla, Derby .. ..           | .. Fletcher George, & Co., Ltd., Litchurch, Derby                            |
| Analytical, Manchester .. ..    | .. Brownlie & Green, Ltd., Church St., Cheetham, Manchester                  |
| Anchorage, Manchester .. ..     | .. Reddaway F., & Co., Ltd., Pendleton, Manchester                           |
| Anderson, Belfast .. ..         | .. Anderson D., & Son, Ltd., Lagan Works, Belfast                            |
| Andrabo, Holb., London .. ..    | .. Andrews & Beaumont, 29, Southampton Buildings, W.C. 2                     |
| Anglia, London .. ..            | .. Ransomes, Sims & Jefferies, Ltd., 64, Queen Victoria Street, E.C. 4       |
| Angus, Newcastle .. ..          | .. Angus George, & Co., Ltd., Newcastle-on-Tyne                              |
| Apermaco, Phone, London ..      | .. Perman & Co., Ltd., 82 & 83, Fenchurch St., E.C. 3                        |
| Apex, Sheffield .. ..           | .. Apex Steel Co., Ltd., Penistone Rd., Sheffield                            |
| Aquadolce, Estrand, London ..   | .. United Water Softeners, Ltd., Imperial House, Kingsway, W.C. 2            |
| Aquapureco, Cent., London ..    | .. Buhling's Patent Water Purifying Co., 146A, Queen Victoria St., E.C.      |
| Aquilentus, Kirkcaldy .. ..     | .. Steel Pipe Company, Ltd., Kirkcaldy, N.B.                                 |
| Archdale, Birmingham .. ..      | .. Archdale Jas., & Co., Ltd., Ledsam St., Birmingham                        |
| Armstrong, Birmingham .. ..     | .. Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham                  |
| Artransle, London .. ..         | .. Aerial Ropeway Transporters, Ltd., Craven House, Kingsway, W.C. 2         |
| Asbestos, Bradford .. ..        | .. Crosswells' Ltd., Wellington Mills, Bradford                              |
| Amulders, Schiedam .. ..        | .. Smulders A. F., Schiedam, Rotterdam, Holland                              |
| Amistamus, London .. ..         | .. Neal Geo. H., & Co., Ltd., 11, Southampton Row, W.C. 1                    |
| Arander, Cannon, London ..      | .. Turbine (Patent) Furnace Co., Ltd., 5, Budge Row, E.C. 4                  |

| TELEGRAPHIC ADDRESS.                     | NAME AND ADDRESS OF ADVERTISER.                                                |
|------------------------------------------|--------------------------------------------------------------------------------|
| Aster, Wembley .. ..                     | Aster Engineering Co. (1913), Ltd., Wembley, Middlesex                         |
| Asteroidal, Rugby .. ..                  | British Thomson-Houston Co., Ltd., Rugby                                       |
| Atkins, Old Fletton .. ..                | Atkins Harry F., Ltd., Old Fletton, Peterborough                               |
| Atkinsaw, Indianapolis .. ..             | Atkins E. C., & Co., Inc., Indianapolis, Indiana, U.S.A.                       |
| Atlas, Birmingham .. ..                  | Piggott Thos., & Co., Ltd., Birmingham                                         |
| Atlas, Gloucester .. ..                  | Fielding & Platt, Ltd., Atlas Works, Gloucester                                |
| Atlas, Sheffield .. ..                   | Brown John, & Co., Ltd., Sheffield                                             |
| Attachment, Manchester .. ..             | Wharton H., Ltd., Station Rd., Reddish, Stockport                              |
| Automobile, Glasgow .. ..                | Albion Motor Car Co., Ltd., Scotstoun, Glasgow                                 |
| Autosynco, Fleet, London .. ..           | Swedish General Electric, Ltd., 5, Chancery Lane, W.C. 2                       |
| Autovent, Vic., London .. ..             | Wolseley Motors, Ltd. York St., Westminster, S.W.                              |
| Avaltur, Westcott, London .. ..          | De Laval Steam Turbine Co., 150, Southampton Row, W.C.                         |
| Aveling, Rochester .. ..                 | Aveling & Porter, Ltd., Rochester                                              |
| Avery, Birmingham .. ..                  | Avery W. T., Ltd., Soho Foundry, Birmingham                                    |
| Astecas, London .. ..                    | Wonham, Bates & Goode, Inc., 3, London Wall Buildings, E.C.                    |
| Backlash, Fleet, London .. ..            | McGraw-Hill Publishing Co., Ltd., 6 & 8, Bouverie St., E.C. 4                  |
| Bagnall, Stafford .. ..                  | Bagnall W. G., Ltd., Castle Engine Works, Stafford                             |
| Bakers, London .. ..                     | Baker, Joseph, Sons & Perkins, Ltd., 21, College Hill, Cannon St., E.C. 4      |
| Balderston, Glasgow .. ..                | Balderston & Co., Ltd., 201, St. Vincent St., Glasgow.                         |
| Baldwin, Philadelphia .. ..              | Baldwin Locomotive Works, The, 300, North Broad St., Philadelphia, Pa., U.S.A. |
| Barclayson, Kilmarnock .. ..             | Barclay Andrew, Sons, & Co., Ltd., Caledonia Works, Kilmarnock                 |
| Barford, Peterborough .. ..              | Barford & Perkins, Ltd., Peterborough                                          |
| Barr, Kilmarnock .. ..                   | Barr, Thompson & Co., Ltd., Kilmarnock, Scotland.                              |
| Barry, Aberdeen .. ..                    | Barry, Henry, & Cook, Ltd., Aberdeen                                           |
| Barton, Hull .. ..                       | Bartolne (Hull), Ltd., Myton Place, Hull                                       |
| Bassett-Lowke, Northampton .. ..         | Bassett-Lowke, Ltd., Northampton                                               |
| Battery, Bely Oak .. ..                  | Birmingham Battery & Metal Co., Ltd., Birmingham                               |
| Bayley, Sheffield .. ..                  | Brown Bayley's Steel Works, Ltd., Sheffield                                    |
| Bayliss, Wolverhampton .. ..             | Bayliss, Jones & Bayliss, Ltd., Wolverhampton                                  |
| Beacon, Salford .. ..                    | Bailey W. H., & Co., Ltd., Albion Works, Salford, Manchester                   |
| Beardmore, Glasgow .. ..                 | Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow                  |
| Beardshaw, Sheffield .. ..               | Beardshaw J., & Son, Ltd., Baltic Steel Works, Sheffield                       |
| Became, Dudley Hill .. ..                | Universal Valve & Chemical Accessories Co., Dudley Hill, Bradford              |
| Beebee, Fallings Heath, Wednesbury .. .. | Beebee A., Wednesbury                                                          |
| Belfry or Asbestos, London .. ..         | Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.E.                     |
| Bellron, Phila., U.S.A. .. ..            | Belmont Iron Works, Philadelphia, U.S.A.                                       |
| Bellamy, London .. ..                    | Bellamy John, Ltd., Millwall, E.                                               |
| Belliss, Birmingham .. ..                | Belliss & Mercem, Ltd., Ledsam St. Works, Birmingham                           |
| Belmont, Birmingham .. ..                | Russell John, & Co., Ltd., New Spring St., Birmingham                          |
| Belting, Bolton .. ..                    | Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs.                   |
| Belting, Cardiff .. ..                   | Lewis & Tylor, Ltd., Cardiff                                                   |
| Bennis, Little Hulton, Bolton .. ..      | Bennis Ed., & Co., Ltd., Little Hulton, Bolton                                 |
| Bepeo, Glasgow .. ..                     | British Electric Plant Co., Ltd., 66, Carrick St., Glasgow                     |
| Bergius, Glasgow .. ..                   | Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow                  |
| Berry, Sowerby Bridge .. ..              | Berry F., & Sons, Sowerby Bridge, Yorkshire                                    |
| Bertram, Edinburgh .. ..                 | Bertrams Limited, Sciennes, Edinburgh                                          |
| Bessemer, Sheffield .. ..                | Bessemer Henry, & Co., Ltd., Sheffield                                         |
| Bestrol, Phone, London .. ..             | British Time Recorder Co., Ltd., 149, Farringdon Rd., E.C. 1                   |
| Betts, Rochester .. ..                   | Bett's Machine Co., Rochester, New York, U.S.A.                                |
| Bird, London .. ..                       | Belling & Lowe, 2, Laurence Pountney Hill, E.C.                                |

| TELEGRAPHIC ADDRESS.                | NAME AND ADDRESS OF ADVERTISER.                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------|
| Birkett, Hanley .. ..               | Birkett T. M., & Sons, Ltd., Hanley, Staffordshire                                     |
| Blackstones, Stamford .. ..         | Blackstone & Co., Ltd., Rutland Works, Stamford                                        |
| Blakeboroughs, Brighouse .. ..      | Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks                       |
| Blason, Glasgow .. ..               | Blair, Campbell & McLean, Ltd., Woodville St., Govan, Glasgow                          |
| Blowing, Leicester .. ..            | Standard & Oswald Stott (Engineers), Ltd., Evington Valley Rd., Leicester              |
| Blundell, Pop., London .. ..        | Blundell's London Copper & Brass Works (1916), Ltd. West India Dock Rd., Limehouse, E. |
| Bodley, Exeter .. ..                | Bodley Bros. & Co., Old Quay Foundry, Exeter                                           |
| Boiler, Cradley Heath .. ..         | Cradley Boiler Co., Ltd., Cradley Heath, Staffordshire                                 |
| Boiler, Glasgow .. ..               | Wilson William, & Co., Lilybank Boiler Works, Glasgow                                  |
| Boiler, Wolverhampton .. ..         | Thompson John (Wolverhampton) Ltd., Wolverhampton                                      |
| Boilers, Halifax .. ..              | Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.                                     |
| Boilers, Loughborough .. ..         | Coltman Walter W., & Co., Ltd., Central Boiler Works, Loughborough                     |
| Bolia, Manchester .. ..             | Marsden S., & Son, Ltd., London Rd., Manchester                                        |
| Bonaccord, Glasgow .. ..            | Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow, W.                             |
| Bonecourt, Phene, London .. ..      | Spencer-Bonecourt, Ltd., Parliament Mansions, Victoria St., S.W. 1                     |
| Borings, Birmingham .. ..           | Rapid Magnetizing Machine Co., Ltd., 52, Lombard St., Birmingham                       |
| Bom, Leicester .. ..                | British Steam Specialities, Ltd., Bedford St., Leicester                               |
| Boulton, Norwich .. ..              | Boulton & Paul, Ltd., Norwich                                                          |
| Bowran, Newcastle-on-Tyne .. ..     | Bowran Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne               |
| Boxhaling, Fen., London .. ..       | British Ropeway Engineering Co., Ltd., 7, Mincing Lane, B.C. 3                         |
| Bralme, Hunslet, Leeds .. ..        | Bralme T. F., & Co., Ltd., Hunslet, Leeds                                              |
| Brake, Manchester .. ..             | Gresham & Craven, Ltd., Salford, Manchester                                            |
| Brakes, West Bromwich .. ..         | Electro Mechanical Brake Co., Ltd., Bagle Works, West Bromwich                         |
| Brampton, Birmingham .. ..          | Brampton Bros., Ltd., Birmingham                                                       |
| Brecknell, Bristol .. ..            | Brecknell, Munro & Rodgers, Ltd., Thrissell St., Bristol                               |
| Bretts, Coventry .. ..              | Brett's Stamping Co., Ltd., Harnall Lane, Coventry                                     |
| Bridge, Motherwell .. ..            | Motherwell Bridge Co., Ltd., Motherwell, N.B.                                          |
| Brinetrade, Charles, London .. ..   | British Motor Trading Corporation, Ltd., 50, Pall Mall, S.W.                           |
| Brins Oxygen, London .. ..          | British Oxygen Co., Elverton St., Westminster, S.W.                                    |
| Briquette, Leeds .. ..              | Briquette Machinery, Ltd., Charmouth St., Leeds                                        |
| Britannia, Manchester .. ..         | Muir Wm., & Co., Ltd., Sherbourne St., Manchester                                      |
| Britniclos, Westrand, London .. ..  | British Niclausse Boiler Co., Ltd., The Clock House, Arundel St., Strand, W.C. 2       |
| Brittoolmak, Phene, London .. ..    | Associated British Tool Makers, Ltd., 17, Grosvenor Gardens, S.W. 1                    |
| Broadbent, Huddersfield .. ..       | Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield                               |
| Bromkirk, Sewart, London .. ..      | Braithwaite & Co., 117, Victoria St., S.W. 1                                           |
| Bronplak, Forest, London .. ..      | Butler-Jones (Nameplates), Ltd., Dartmouth Works, Forest Hill, S.E. 23                 |
| Bronze, Glasgow .. ..               | Steven & Struthers, Kelvinhaugh, Glasgow                                               |
| Bronze, Longport .. ..              | Billington & Newton, Ltd., Longport, Stoke-on-Trent                                    |
| Broom, High Wycombe .. ..           | Broom & Wade, Ltd., High Wycombe                                                       |
| Brotherhood, Peterborough .. ..     | Brotherhood Peter, Ltd., Peterborough                                                  |
| Browning, Cleveland .. ..           | Browning Co., Cleveland, Ohio, U.S.A.                                                  |
| Brownholst, Cleveland, U.S.A. .. .. | Brown Holsting Machinery Co., Cleveland, Ohio, U.S.A.                                  |
| Bucktons, Leeds .. ..               | Buckton Joshua, & Co., Ltd., Leeds                                                     |
| Budenberg, Altrincham .. ..         | Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester                                  |
| Budgett, Chelmsford .. ..           | Budgett H. M., Crown Works, Chelmsford                                                 |
| Bullard, Bridgeport .. ..           | Bullard Machine Tool Co., Bridgeport, Conn., U.S.A.                                    |
| Bullivants, Fen., London .. ..      | Bullivant & Co., Ltd., 72, Mark Lane, B.C.                                             |
| Burmeisters, Copenhagen .. ..       | Burmeister & Wain's Ltd., Copenhagen C., Denmark                                       |
| Burmese, Birmingham .. ..           | Suckling William, & Sons, Cradley Heath, Staffs.                                       |
| Burnet, Glasgow .. ..               | Forth Shipbuilding & Engineering Co., Ltd., Moor Park Boiler Works, Govan, Glasgow     |
| Bushis, Led., London .. ..          | Hampton & Dean, Clifton Works, Wednesbury                                              |
| Butler, Halifax, England .. ..      | Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax, Eng.                       |

| TELEGRAPHIC ADDRESS.                  | NAME AND ADDRESS OF ADVERTISER.                                        |
|---------------------------------------|------------------------------------------------------------------------|
| Cables, Manchester .. ..              | Glover W. T., & Co., Ltd., Trafford Park, Manchester                   |
| Callicorn-Churton, London .. ..       | Burton, Griffiths & Co., Ltd., 64 to 70, Vauxhall Bridge Rd., S.W.     |
| Calidad, Glasgow .. ..                | McKie & Baxter, Copland Works, Govan, Glasgow                          |
| Camgas, Halifax .. ..                 | Campbell Gas Engine Co., Ltd., Halifax, England                        |
| Cammell Laird, London .. ..           | Cammell Laird & Co., Ltd., 3, Central Bldgs., Westminster, S.W.        |
| Cammell Laird, Sheffield .. ..        | Cammell Laird & Co., Ltd., Cyclops Steel and Iron Works, Sheffield     |
| Carbide, Newcastle-on-Tyne .. ..      | Dargue Acetylene Gas Co., Ltd., 57 & 59, Grey St., Newcastle-on-Tyne   |
| Carbon, Pittsburg, U.S.A. .. ..       | Carbon Steel Co., Pittsburg, Penna., U.S.A.                            |
| Carborund, Manchester .. ..           | Carborundum Co., Ltd., Trafford Park, Manchester                       |
| Carex, New York .. ..                 | American Car & Foundry Co., 165, Broadway, New York, U.S.A.            |
| Carriage, Smethwick, Birmingham .. .. | Birmingham Railway Carriage & Wagon Co., Ltd., Smethwick, Birmingham   |
| Carronade, Falkirk .. ..              | Carron Company, Carron, Stirlingshire                                  |
| Carwheel .. ..                        | Fuller-Lehigh Co., Fullerton, Pa., U.S.A.                              |
| Casements, Smethwick .. ..            | Hope, Henry & Sons, Smethwick, Birmingham                              |
| Castings, Luton .. ..                 | Davis Furnace Co., Diamond Foundry, Luton, Beds.                       |
| Castings, Mansfield .. ..             | Stokes Castings, Ltd., Mansfield                                       |
| Castings, Sheffield .. ..             | Brightside Foundry & Engineering Co., Ltd., Sheffield                  |
| Castings, Smethwick .. ..             | Dominion Malleable, Ltd., Etna Works, Smethwick                        |
| Castings, Sunderland .. ..            | Jopling E., & Sons, Ltd., Pallion Steel Works, Sunderland              |
| Castleton, Manchester .. ..           | Bridge David, & Co., Ltd., Castleton, Manchester                       |
| Caulking, Piccy, London .. ..         | Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly |
| Centranes, Vic., London .. ..         | Integral Oxygen Co., Ltd., 38, Victoria St., S.W. 1 [W. 1]             |
| Centumvir, Phone, London .. ..        | Sterns Ltd., Royal London House, Finsbury Square, E.C.                 |
| Chadburn, Liverpool .. ..             | Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs.      |
| Chainbelt, Derby .. ..                | Ewart Chainbelt Co., Ltd., Derby                                       |
| Chaindrive, Letchworth .. ..          | Westinghouse Morse Chain Co., Ltd., Letchworth, Herts                  |
| Chains, Coventry .. ..                | Coventry Chain Co., Ltd., Coventry                                     |
| Chalkiness, Estrand, London .. ..     | Smith F. L., & Co., Ltd., 20, Essex St., W.C. 2                        |
| Chaplin, Glasgow .. ..                | Chaplin Alex., & Co., Ltd., Govan, Glasgow                             |
| Chatwin, Birmingham .. ..             | Chatwin Thos., Ltd., Gt. Tindal St., Birmingham [Rd., S.B.             |
| Cheaper, Char., London .. ..          | Harvey G. A., & Co. (London), Ltd., Greenwich Metal Wks., Woolwich     |
| Cheery, Cent, London .. ..            | Wakefield C. C., & Co., Wakefield House, 30 & 32, Cheapside, E.C.      |
| Chief Goods, Railway, York .. ..      | North Eastern Railway Co., York                                        |
| Childred, Birmingham .. ..            | Croft A. J., & Co., Ltd., Holly Lane, Perry Bar, Birmingham            |
| Chuck, Leicester .. ..                | Jones, A. A. & Shipman, Ltd., East Park Road, Leicester.               |
| Clarendoma, Ave., London .. ..        | Kloos F., & Sons, Ltd., 20, Copthall Avenue, E.C. 2                    |
| Clark, Hull .. ..                     | Clarke George, & Sons (Hull), Ltd., Waterhouse Lane, Hull              |
| Clavako, Blackpool .. ..              | Clayton Valve Co., Ltd., Preston Old Rd., Blackpool                    |
| Cleveland Bridge, Darlington .. ..    | Cleveland Bridge & Engineering Co., Ltd., Darlington                   |
| Cliffell, Johnstone .. ..             | Clifton & Waddell, Johnstone, near Glasgow                             |
| Clinchex, Phone, London .. ..         | North-British Rubber Co., Ltd., 257-259, Oxford St., W. 1              |
| Clutch, Shipley .. ..                 | Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, nr. Bradford   |
| Clyde, Hallside, Lanarkshire .. ..    | Clyde Nail Co., Ltd., Newton, nr. Glasgow                              |
| Cochrane, Barrhead .. ..              | Cochrane, John (Barrhead), Ltd., Barrhead, nr. Glasgow                 |
| Cockburn, Glasgow .. ..               | Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow                  |
| Cognition, New York .. ..             | Manning, Maxwell & Moore, Inc., New York                               |
| Cogs, Birmingham .. ..                | Lloyd Richard, & Co., Galton Works, Steelhouse Lane, Birmingham        |
| Cole, Bradford .. ..                  | Cole, Marchant & Morley, Ltd., Bradford                                |
| Coles, Derby .. ..                    | Coles H. J., Ltd., London Crane Works, Derby                           |
| Coltman, Loughborough .. ..           | Coltman H., & Sons, Loughborough                                       |
| Coltcol, Claprad, London .. ..        | Lactacol, Ltd., 2, Studley Rd., Stockwell, S.W. 4                      |
| Colville, Motherwell .. ..            | Colville David, & Sons, Ltd., Dalzell Steel & Iron Works, Motherwell,  |
| Colville, London .. ..                | Colville David, & Sons, Ltd., 54, Old Broad St., E.C. [near Glasgow    |
| Comorra, Loughborough .. ..           | Morris Herbert, Ltd., Loughborough, England                            |

| TELEGRAPHIC ADDRESS.                          | NAME AND ADDRESS OF ADVERTISER.                                                     |
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| Compactum, Led., London ..                    | Kirkaldy John, Ltd., 101, Leadenhall St., E.C. 3                                    |
| Compass, Glasgow ..                           | Dobbie, McInnes & Clyde, Ltd., 57, Bothwell St., Glasgow                            |
| Concordance, Ave., London ..                  | Electric Construction Co., Ltd., 9, New Broad St., E.C. 2                           |
| Conical, Glasgow ..                           | Lindsay R. B. & Co., 38, Mair St., Plantation, Glasgow                              |
| Contact, Altrincham ..                        | Holme Edward, & Co., Ltd., Altrincham, Cheshire                                     |
| Contemporary, Cent., London ..                | Pitman Sir Isaac & Sons, Ltd., Parker St., Kingsway, W.C.2                          |
| Control, Glasgow ..                           | Electric Control, Ltd., Bridgeton, Glasgow                                          |
| Conveyor, Accrington ..                       | Conveyor & Elevator Co., Accrington, Lancashire                                     |
| Coordinate, York ..                           | Cooke T., & Sons, Ltd., Buckingham Works, York                                      |
| Copper Co., London ..                         | Broughton Copper Co., Ltd., London                                                  |
| Copper Co., Manchester ..                     | Broughton Copper Co., Ltd., Manchester                                              |
| Corrugated, Ellesmere Port ..                 | Wolverhampton Corrugated Iron Co., Ltd., Ellesmere Port, nr. Birkenhead             |
| Corrugated, Glasgow ..                        | Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow            |
| Courteous, Emsroad, London ..                 | Braby Fredk., & Co., Ltd., Fitzroy Works, 352-364, Buston Rd., N.W.                 |
| Covers, Birmingham ..                         | Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham                        |
| Cradoek, Wakefield ..                         | Cradoek Geo., & Co., Ltd., Wire Rope Works, Wakefield                               |
| Craig-Donald, Johnstone ..                    | Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.                                 |
| Craig, Paisley ..                             | Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley                          |
| Crandos, Manchester ..                        | Crowther & Osborne, Ltd., 7, Blackfriars St., Salford, Manchester                   |
| Cranes, Aberdeen ..                           | Henderson John M., & Co., King's Works, Aberdeen, Scotland                          |
| Cranes, Bedford ..                            | Bedford Engineering Co., Bedford, England                                           |
| Cranes, Motherwell ..                         | Jack Alexander, & Co., Ltd., Whitegates Engineering Wks., Motherwell, Scotland      |
| Cranes, Pudsey ..                             | Middleton Bros., Westover Works, Pudsey, Leeds                                      |
| Cranes, Reddish ..                            | Heywood S. H., & Co., Ltd., Reddish                                                 |
| Cranes, Rodley ..                             | Booth Joseph, & Bros., Rodley, Leeds                                                |
| Cranks, Lincoln ..                            | Clarke's Crank & Forge Co., Ltd., Lincoln                                           |
| Cranks, Lincoln ..                            | Farrar Boiler Works, Ltd., Lincoln                                                  |
| Craven, Reddish ..                            | Craven Brothers (Manchester), Ltd., Vauxhall Wks., Reddish, Stockport               |
| Craven, Wakefield ..                          | Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield                          |
| Crittall, Braintree ..                        | Crittall Manufacturing Co., Ltd., Braintree                                         |
| Crofters, Bradford ..                         | Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorkshire                            |
| Crosby, London ..                             | Crosby Valve & Engineering Co., Ltd., 41 & 42, Foley St., W. 1                      |
| Crown, Glasgow ..                             | Sterne L., & Co., Ltd., Crown Ironworks, Glasgow                                    |
| Crown, Gortonbrook ..                         | Higginbottom & Mannock, Ltd., West Gorton, Manchester                               |
| Crown, Sheffield ..                           | Lee Arthur & Sons, Ltd., Sheffield                                                  |
| Crucigraph, Vic., London ..                   | Dixon, Joseph, Crucible Co., 28, Victoria St., S.W. 1                               |
| Cryolite, Cent., London ..                    | British Aluminium Co., Ltd., 109, Queen Victoria St., E.C. 4                        |
| Cuffin, Leicester ..                          | Cuffin W. H., North Evington, Leicester                                             |
| Cumulative, Phone, London ..                  | Paterson Engineering Co., Ltd., 21, Windsor House, Kingsway, W.C. 2                 |
| Curtis, Bridgeport, Conn. ..                  | Curtis & Curtis Co., 77, Garden St., Bridgeport, Conn.                              |
| Cushman, Hartford ..                          | Cushman Chuck Co., Hartford, Conn., U.S.A.                                          |
| Cusmeos, New York ..                          | Church Street Machinery & Engineering Corporation, 30, Church St., New York, U.S.A. |
| Cutters, Birmingham ..                        | Wright B. G., & Co., Ltd., Foundry Lane Works, Birmingham                           |
| Cyclops, Gateshead ..                         | Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne                                      |
| Cylinders, Birmingham ..                      | Tubes Ltd., Birmingham                                                              |
| Cymlecks, Pacey., London ..                   | Stewart J. & W., 12, Berkeley St., W. 1                                             |
| Dangerfield, Goldthorn Hill, Wolverhampton .. | Dangerfield W. & J., Goldthorn Hill, Wolverhampton                                  |
| Daniell, Birmingham ..                        | Daniell S. A., Ltd., Edward St., Parade, Birmingham                                 |

| TELEGRAPHIC ADDRESS.                      | NAME AND ADDRESS OF ADVERTISER.                                                                                        |
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| Daniels, Stroud .. ..                     | Daniels T. H. & J., Ltd., Stroud, Glos.                                                                                |
| Danks, Netherton, Dudley .. ..            | Danks H. & T. (Netherton), Ltd., Netherton, Dudley                                                                     |
| Dawsons, Lincoln .. ..                    | Dawson James, & Son, Ltd., Boulton Works, Lincoln                                                                      |
| Day Summers, Southampton .. ..            | Day, Summers & Co., Ltd., Northam Ironworks, Southampton                                                               |
| Delingpole, Birmingham .. ..              | Burton, Delingpole & Co., Moseley St., Birmingham                                                                      |
| Delburn, Motherwell .. ..                 | Marshall, Fleming & Co., Ltd., Motherwell, N.B.                                                                        |
| Delta, Eastgren, London .. ..             | Delta Metal Co., Ltd., Bast Greenwich, S.E.                                                                            |
| Deltidium, London .. ..                   | Bassanger J., & Co., Ltd., Audrey House, Ely Place, E.C. 1                                                             |
| Dempster, Glasgow .. ..                   | Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow                                                                |
| Denwatest, Vic., London .. ..             | Denkon Samuel, & Son, Ltd., 28, Victoria St., S.W. 1                                                                   |
| Derwent, Birmingham .. ..                 | Taylor & Challen, Ltd., Derwent Foundry, Birmingham                                                                    |
| Devisers, Glasgow .. ..                   | Steel Construction Co., Ltd., Craighall Ironworks, Glasgow                                                             |
| Dhagoba, Westrand, London .. ..           | Constable & Co., 10, Orange St., Leicester Sq., W.C.                                                                   |
| Diagram, Liverpool .. ..                  | Hughes & Lancaster, Liverpool                                                                                          |
| Diamond, Carnoustie .. ..                 | Anderson-Grice Co., Ltd., Carnoustie, Scotland                                                                         |
| Dieselben, Pacey, London .. ..            | Carais Diesel & Steam Engines (London), Ltd., Carlton House, Regent St., S.W. 1                                        |
| Dieselmot Estrand, London .. ..           | Atlas Diesel Co., Ltd., 35, Surrey St., W.C. 2                                                                         |
| Distend, Vic., London .. ..               | Expanded Metal Co., Ltd., York Mansions, York St., Westminster, [S.W.]                                                 |
| Dockyard, Dublin .. ..                    | Dublin Dockyard Co., Ltd., North Wall, Dublin                                                                          |
| Dogsplike, Wishaw .. ..                   | Russell John G., Clydesdale Nail Works, Wishaw, Scotland                                                               |
| Dolphin, Leeds .. ..                      | Campbell & Hunter, Ltd., Dolphin Foundry, Leeds                                                                        |
| Dominating, Vic., London .. ..            | Morden S. H., & Co., Ltd., Dartmouth St., Westminster, S.W. 1                                                          |
| Donkin, Chesterfield .. ..                | Donkin Company, Ltd. (The Bryan), Chesterfield                                                                         |
| Dosoroco, Birmingham .. ..                | Beloro Smelting & Refining Co., Ltd., 174, Corporation St., Birmingham                                                 |
| Douglas, Kirkcaldy .. ..                  | Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.                                                              |
| Doxford, Sunderland .. ..                 | Doxford William, & Sons, Ltd., Sunderland                                                                              |
| Dredger, Port Glasgow .. ..               | Ferguson Brothers (Port Glasgow), Ltd., Newark Works, Port-Asquith William (1919), Ltd., Park Works, Halifax [Glasgow] |
| Drill, Halifax .. ..                      | Renold Hans, Ltd., Burnage Works, Didsbury, Manchester                                                                 |
| Driving, Stockport .. ..                  | Smethwick Stamping Co., Bridge St., Smethwick, Staffs.                                                                 |
| Droferg, Smethwick .. ..                  | Drum Engineering Co., Ltd., 28, Humboldt St., Bradford                                                                 |
| Drum, Bradford .. ..                      | Dixon's White, Ltd., Albion Wharf, Bow, E.                                                                             |
| Dryolene, Bechurch, London .. ..          | Wisconsin Electric Co., Racine, Wisconsin, U.S.A.                                                                      |
| Dunmore, Racine .. ..                     | Tinker, Shenton & Co., Ltd., Hyde, near Manchester                                                                     |
| Duplex, Hyde .. ..                        | Patent Die-Casting Co., Ltd., 64, Strode Rd., N.W. 10                                                                  |
| Dyakasy, Wilroad, London .. ..            | Hall J. P., & Co., Ltd., Oldham                                                                                        |
| Dynamo, Oldham .. ..                      |                                                                                                                        |
| Eastwardly, London .. ..                  | McGregor, Gow & Holland, Ltd., 1 & 4, Fenchurch Avenue, E.C. 3                                                         |
| Ebonite, Phone, London .. ..              | Barrett & Elers, Ltd., Wallis Rd., Hackney Wick, E. 9                                                                  |
| Economy, Hazel Grove .. ..                | Mirreles, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport                                                            |
| Eerit, London .. ..                       | American Lead Pencil Co., 173 & 175, Lower Clapton Rd., N.E.                                                           |
| Edmeston, Patricroft .. ..                | Edmeston Archibald, & Sons, Ltd., Patricroft, near Manchester                                                          |
| Efficiency, London .. ..                  | Leroy F., & Co., 20, Gray St., Commercial Rd., B.                                                                      |
| Effembral, Phone, London .. ..            | Mowbray F. H., 14, Southampton St., Strand, W.C.                                                                       |
| Electricity, Cent., London .. ..          | General Electric Co., Ltd., Magnet House, Kingsway, W.C. 2                                                             |
| Electrodes, Rotherham .. ..               | Electrode Co. of Sheffield, Ltd., Winobank, Sheffield                                                                  |
| Eliapratus, Vaux., London .. ..           | Electrical Apparatus Co., Ltd., South Lambeth Rd., S.W. 8                                                              |
| Elliot Company, Cardiff .. ..             | Elliot George, & Co., Ltd., Cardiff                                                                                    |
| Elliot Company, London .. ..              | Elliot George, & Co., Ltd., 16, Great George St., Westminster, S.W.                                                    |
| Ellisons Ltd., Irlams-o'-th'-Height .. .. | Ellison W. T., & Co., Irlams-o'-th'-Height, Manchester                                                                 |
| Esterne, London .. ..                     | Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C.                                                             |



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| Flyor, Cadishead .. ..              | Royles Limited, Irlam, near Manchester                                     |
| Embossing, Liverpool .. ..          | Legge F. Thompson, & Co., 16, South Castle St., Liverpool                  |
| Emergency, Cardiff .. ..            | Brown Herbert, 51, Charles St., Cardiff.                                   |
| Emery, Altrincham .. ..             | Luke & Spencer, Ltd., Canal Eng. Works, Altrincham                         |
| Emirship, London .. ..              | Griplock Washer, Ltd., 6A, Tudor St., Blackfriars, E.C.                    |
| Empreste, Vic., London .. ..        | Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W. 1                 |
| Empress, Johnstone .. ..            | Clifton & Baird, Ltd., Johnstone, Scotland                                 |
| Endazle, London .. ..               | Dissolved Acetylene Co., Ltd., 268 & 270, South Lambeth Rd., S.W. 8        |
| Endeavour, London .. ..             | Birch John, & Co., Ltd., 2, London Wall Buildings, E.C.                    |
| Enelectico, Westcent, London .. ..  | English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C. 2            |
| Energy, Hull .. ..                  | Moxted & Knott, Ltd., Burnett Avenue, Hull                                 |
| Energy, Motherwell .. ..            | Chambers, Scott & Co., Ltd., Motherwell                                    |
| Engine, Ave., London .. ..          | Marshall, Sons, & Co., Ltd., 3, London Wall Buildings, London Wall, E.C. 2 |
| Engine, Leeds .. ..                 | Hunslet Engine Co., Ltd., Leeds                                            |
| Engine, Sheffield .. ..             | Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield               |
| Engineering, Westrand, London .. .. | "Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.                    |
| Engineers, Liverpool .. ..          | Wilson, John H. & Co., Dock Road, Birkenhead.                              |
| Enorbalber, London .. ..            | Northern Ball-Bearings, Ltd., 115, Great Portland St., W. 1                |
| Enterprise, Birkenhead .. ..        | Dickie Geo., & Sons, Chester St., Birkenhead                               |
| Epa, London .. ..                   | Alexander B. P., & Son, 306, High Holborn, W.C.                            |
| Epistolary, Vic., London .. ..      | Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.                          |
| Equestrian, London .. ..            | Bradley Fulverker Co., 37, Walbrook, E.C.                                  |
| Ericson, Fleet, London .. ..        | British L.M. Ericsson Mfg. Co., Ltd., 60, Lincoln's Inn Fields, W.C. 2     |
| Escapable, Westdo, London .. ..     | Vickers-Pettors, Ltd., 117-123, Gt. Portland Street, W.1.                  |
| Escarabel, Charles, London .. ..    | Scarab Oil Burning Co., Ltd., 28, Charles St., Haymarket, S.W. 1           |
| Eswyco, Sowest, London .. ..        | Escher, Wyss & Co., 20, Grosvenor Gardens, S.W.1.                          |
| Etna, Leth .. ..                    | Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh                       |
| Eureka, Birmingham .. ..            | Wright John, & Co., Essex Works, Aston, Birmingham                         |
| Evans, Wolverhampton .. ..          | Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton                  |
| Evaporate, Pollokshaws .. ..        | Balglish A. & W., West of Scotland Boiler Wks., Pollokshaws, Glasgow       |
| Everite, Manchester .. ..           | British Everite & Asbestillite Works, Ltd., 29, Peter St., Manchester      |
| Everything, Birmingham .. ..        | Mountford Fredk., Ltd., Fremo Works, Old Cross Street, Birmingham          |
| Everything, Manchester .. ..        | Kenyon, Alexander, & Co., Victoria Bridge, Manchester                      |
| Exactitude, Birmingham .. ..        | Walseley Motors, Ltd., Adderley Park, Birmingham                           |
| Excavator, Leeds .. ..              | Whitakers (Engineers), Ltd., Horsforth, Leeds                              |
| Excavator, Leicester .. ..          | Whitaker D., 1, Union St., Leicester                                       |
| Exhaust, Romley .. ..               | Davies & Motcalf, Ltd., Romley, Manchester                                 |
| Expansion, Glasgow .. ..            | Glasgow Railway Engineering Co., Ltd., Govan, Glasgow                      |
| Expedient, Birmingham .. ..         | Nathan H. L., 16, Regent Place, Birmingham                                 |
| Explanatus, London .. ..            | Griffin Charles & Co., Ltd., Exeter St., Strand, W.C.                      |
| Extrusion, Birmingham .. ..         | Delta Metal Co., Ltd., Dartmouth St., Birmingham                           |
| Fabricants, Phone, London .. ..     | Lash Robert H., Ltd., 23, Tavistock Square, W.C. 1                         |
| Fairhammer, Boston .. ..            | United Hammer Co., Boston, Mass., U.S.A.                                   |
| Fairley, Birmingham .. ..           | Fairley James, & Sons, Old Mint, Shadwell St., Birmingham                  |
| Falcon, Loughborough .. ..          | Brush Electrical Engineering Co., Ltd., Loughborough, Leicestershire       |
| Fawcett, Liverpool .. ..            | Fawcett, Preston & Co., Ltd., Liverpool                                    |
| Fellows, Cradley Heath .. ..        | Fellows Bros., Ltd., Cradley Heath, Staffs.                                |
| Fenspon, Charles, London .. ..      | Spon E. & F. N., Ltd., 57, Haymarket, S.W. 1                               |
| Ferrolst, Vic., London .. ..        | Holst K., & Co., 1, Victoria St., S.W. 1                                   |
| Fibrocemen, Eritth, Kent .. ..      | British Fibrocement Works, Eritth, Kent                                    |
| File Forge, Kirkcaldy .. ..         | File Forge Co., Ltd., Kirkcaldy, Scotland                                  |

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| <b>Figee-Haarlem</b> .. ..                  | <b>Figee Ltd., Haarlem, Holland</b>                                                    |
| <b>Findlay, Motherwell</b> .. ..            | <b>Findlay Alex., &amp; Co., Ltd., Motherwell, near Glasgow</b>                        |
| <b>Finks, Glasgow</b> .. ..                 | <b>Oxy-Acetylene Welding Co., Ltd., 189, Finnieston St., Glasgow</b>                   |
| <b>Firno, Glasgow</b> .. ..                 | <b>Firth Thos., &amp; Sons, Ltd., 144, St. Vincent St., Glasgow</b>                    |
| <b>Firosis, London</b> .. ..                | <b>Reddaway F., &amp; Co., Ltd., 212, Shaftesbury Avenue, W.C.</b>                     |
| <b>Firth, Sheffield</b> .. ..               | <b>Firth Thos., &amp; Sons, Ltd., Norfolk Works, Sheffield</b>                         |
| <b>Flamma, London</b> .. ..                 | <b>Acetylene Corporation, Ltd., 49, Victoria St., S.W.</b>                             |
| <b>Flashpoint, Glasgow</b> .. ..            | <b>British Oil Products Co., Ltd., Townmill Rd., Dennistoun, Glasgow</b>               |
| <b>Forge, Darlington</b> .. ..              | <b>Darlington Forge Co., Ltd., Albert Hill, Darlington</b>                             |
| <b>Forge, Dumbarton</b> .. ..               | <b>Dennystown Forge Co., Dumbarton</b>                                                 |
| <b>Forge, Kirkstall</b> .. ..               | <b>Kirkstall Forge Ltd., Leeds</b>                                                     |
| <b>Forgings, Glasgow</b> .. ..              | <b>Gartsherrie Engineering &amp; Forge Co., 50, Wellington St., Glasgow</b>            |
| <b>Forward, Sheffield</b> .. ..             | <b>Ward Thos. W., Ltd., Albion Works, Sheffield</b>                                    |
| <b>Foster, Instrument, Letchworth</b> .. .. | <b>Foster Instrument Co., Letchworth, Herts.</b>                                       |
| <b>Fosters, Wednesbury</b> .. ..            | <b>Foster Brothers, Ltd., Wednesbury</b>                                               |
| <b>Foundries, Derby</b> .. ..               | <b>Fletcher Malleable Foundries, Ltd., Litchurch Lane, Derby</b>                       |
| <b>Foundry, Bolton</b> .. ..                | <b>Entwistle &amp; Gass, Ltd., Bolton</b>                                              |
| <b>Foundry, Bradford</b> .. ..              | <b>Bever, Doring &amp; Co., Ltd., Bowling Ironworks, Bradford</b>                      |
| <b>Foundry, Manchester</b> .. ..            | <b>Wallwork Henry, &amp; Co., Ltd., Manchester</b>                                     |
| <b>Foundry, Walsall</b> .. ..               | <b>Pleck Foundry Co., Ltd., Darlaston Rd., Walsall</b>                                 |
| <b>Fowler, Leeds</b> .. ..                  | <b>Fowler John, &amp; Co. (Leeds), Ltd., Steam Plough Works, Leeds</b>                 |
| <b>France, Glasgow</b> .. ..                | <b>France &amp; Morgan, Whitefield Brass Works, Govan, Glasgow</b>                     |
| <b>Fraser, Arbroath</b> .. ..               | <b>Fraser Douglas, &amp; Sons, Ltd., Westburn Foundry, Arbroath</b>                    |
| <b>Frasco, Glasgow</b> .. ..                | <b>Gas Power &amp; By-Products Co., Ltd., 116, Hope St., Glasgow</b>                   |
| <b>Fribald, London</b> .. ..                | <b>Baldwin Locomotive Works, The, 34, Victoria St., S.W.</b>                           |
| <b>Friction, Chapel-en-le-Frith</b> .. ..   | <b>Ferodo, Ltd., Sovereign Mills, Chapel-en-le-Frith</b>                               |
| <b>Frigity, Holborn, London</b> .. ..       | <b>West H. J., &amp; Co., Ltd., 72-74, Grays Inn Road, W.C. 1</b>                      |
| <b>Frymetals, Friars, London</b> .. ..      | <b>Fry's Metal Foundry, 25-42, Holland St., Blackfriars, S.E. 1</b>                    |
| <b>Fugal, Glasgow</b> .. ..                 | <b>Watson Laidlaw &amp; Co., Ltd., 98, Dundas St. (South), Glasgow</b>                 |
| <b>Fulfil, Cincinnati</b> .. ..             | <b>Fulfil Pump Co., Cincinnati, Ohio, U.S.A.</b>                                       |
| <b>Fuller Horsey, London</b> .. ..          | <b>Fuller, Horsey, Sons &amp; Cassell, 11, Billiter Square, E.C.</b>                   |
| <b>Furnaces, Llanelly</b> .. ..             | <b>Beeson &amp; Stevenson, Ltd., Llanelly, Carmarthenshire</b>                         |
| <b>Galloway, Manchester</b> .. ..           | <b>Galloways Limited, Manchester</b>                                                   |
| <b>Galvanic, Bilston</b> .. ..              | <b>Bradley &amp; Co., Ltd., Bilston</b>                                                |
| <b>Galvaulzer, Liverpool</b> .. ..          | <b>Maxwell &amp; Page, 49, Sefton St., Liverpool</b>                                   |
| <b>Gandah, Glasgow</b> .. ..                | <b>Harvey G. &amp; A., Ltd., Govan, Glasgow</b>                                        |
| <b>Garrett, Leiston</b> .. ..               | <b>Garrett R., &amp; Sons, Ltd., Leiston Works, Suffolk</b>                            |
| <b>Gas, Leeds</b> .. ..                     | <b>Clayton, Son &amp; Co., Ltd., Leeds City Boiler Works, Leeds</b>                    |
| <b>Gaseous, London</b> .. ..                | <b>Dowson &amp; Mason Gas Plant Co., Ltd., 39, Victoria St., S.W.</b>                  |
| <b>Gasholder, Stockton-on-Tees</b> .. ..    | <b>Ashmore, Benson, Pease &amp; Co., Ltd., Stockton-on-Tees</b>                        |
| <b>Gasify, Levenshulme</b> .. ..            | <b>Dowson &amp; Mason Gas Plant Co., Ltd., Levenshulme, Manchester</b>                 |
| <b>Gasupreme, London</b> .. ..              | <b>British Commercial Gas Association, 47, Victoria St., S.W.</b>                      |
| <b>Gastores, Warrington</b> .. ..           | <b>Richmond Gas Stove &amp; Motor Co., Ltd., Academy St., Warrington</b>               |
| <b>Gearing, Huddersfield</b> .. ..          | <b>Brown David, &amp; Sons (Huddersfield), Ltd., Park Works, Lockwood Huddersfield</b> |
| <b>Gears, Gateshead</b> .. ..               | <b>Reay Gearworks, Ltd., Gateshead-on-Tyne</b>                                         |
| <b>Gears, Halifax</b> .. ..                 | <b>Greenwood's Standard Gear Cutting Co., Ltd., New Bond St., Halifax</b>              |
| <b>Gears, Hyde</b> .. ..                    | <b>Turbine Gears, Ltd., Hyde, Cheshire</b>                                             |
| <b>Gebsulzer, London</b> .. ..              | <b>Sulzer Brothers, 31, Bedford Square, W.C. 1</b>                                     |
| <b>Geologic, London</b> .. ..               | <b>King's Patent Agency, Ltd., 165, Queen Victoria St., E.C. 4</b>                     |
| <b>Gibbins, Birmingham</b> .. ..            | <b>Gibbins, R. C., &amp; Co., Berkley St., Birmingham</b>                              |
| <b>Gibbons, Lower-Gornal</b> .. ..          | <b>Gibbons Bros., Ltd., Dildale Works, Dudley, Worc.</b>                               |

| TELEGRAPHIC ADDRESS.                | NAME AND ADDRESS OF ADVERTISER.                                   |
|-------------------------------------|-------------------------------------------------------------------|
| Gilkes, Kendal .. ..                | Gilbert Gilkes & Co., Ltd., Kendal, England                       |
| Gilman, Rotherwood, Birmingham      | Gilman Frank, 9, Westwood Rd., Birmingham                         |
| Gilson, Pontardawe .. ..            | Gilbertson W., & Co., Ltd., Pontardawe, near Swansea              |
| Girder, Motherwell .. ..            | Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell      |
| Glweh, Glasgow .. ..                | Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow               |
| Glasses, Newton Heath .. ..         | Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester     |
| Glenfield, Kilmarnock .. ..         | Glenfield & Kennedy, Ltd., Kilmarnock, N.B.                       |
| Globe, Derby .. ..                  | Roe & Harrison, Ltd., Derby                                       |
| Goodwin, Ironfounder, Leicester ..  | Goodwin, Barsby, & Co., Leicester                                 |
| Gothic, Norwich .. ..               | Laurence, Scott, & Co., Ltd., Norwich                             |
| Grace, Thrapston .. ..              | Smith & Grace Screw Boss Fulley Co., Ltd., Thrapston              |
| Grafton, Bedford .. ..              | Grafton & Co., Bedford                                            |
| Graftonian, London .. ..            | Grafton & Co., 120, Cannon St., B.C.                              |
| Gramercy, London .. ..              | Le Bas Edward, & Co., Dock House, Billiter St., B.C.              |
| Grant, Kilmarnock .. ..             | Grant, Ritchie & Co., Ltd., Kilmarnock                            |
| Graysilver, Silver, London          | India Rubber, Gutta Percha, & Telegraph Works Co., Ltd., Silver-  |
| Gresley, Manchester .. ..           | Smith & Coventry, Ltd., Gresley Ironworks, Manchester (town, E    |
| Greece, Birmingham .. ..            | Greece, Grice & Son, Ltd., Sheepcote St., Birmingham              |
| Grieve, Motherwell .. ..            | Grieve John, & Co., Motherwell, Scotland                          |
| Grispen, New York .. ..             | Griscom-Russell Co., 95, West St., New York, U.S.A.               |
| Guest, Rotherham .. ..              | Guest & Chrimes, Rotherham                                        |
| Gunmetal, Glasgow .. ..             | Fegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow            |
| Gunther, Oldham .. ..               | Gunther W., & Sons, Central Works, Oldham                         |
| Gutta-percha, Glasgow .. ..         | Dick R. & J., Ltd., Greenhead Works, Glasgow                      |
| Gutta-percha, Toronto .. ..         | Gutta Percha & Rubber, Ltd., Toronto, Canada                      |
| Guttashea, Ave., London .. ..       | New Gutta Percha Co., Ltd., Dashwood House, New Broad St., E.C. 2 |
| Gwynne, London .. ..                | Gwynne's Engineering Co., Ltd., Hammersmith Ironworks, W.         |
| Hacksaw, Blackburn .. ..            | Baynes Charles, Ltd., Knuzden Brook, Blackburn                    |
| Haddfield, Sheffield .. ..          | Haddfields Limited, Hecla Works, Sheffield                        |
| Haigh, Oldham .. ..                 | Haighs (Oldham) Ltd., Globe Ironworks, Plane St., Oldham          |
| Halden, Manchester .. ..            | Halden J., & Co., Ltd., 8, Albert Square, Manchester              |
| Halefo, Tipton .. ..                | Hale Thos. L., Ltd., Dudley Part, Tipton, Staffs.                 |
| Hall, Engineers, Peterborough       | Hall J. P., & Sons, Ltd., Peterborough                            |
| Hallowell, Birmingham .. ..         | Howes & Burley, Ltd., Holloway Head, Birmingham                   |
| Hallford, Dartford .. ..            | Hall J. & B., Ltd., Dartford, Kent                                |
| Hallford, London .. ..              | Hall J. & B., Ltd., 10, St. Swithin's Lane, E.C.                  |
| Hammer, Boston, U.S.A.              | Beaudry & Co., Inc., Boston, Mass., U.S.A.                        |
| Hanlon, c/o Swiftsure, Liverpool .. | Ironsides Company, 61A, Bold St., Liverpool                       |
| Harris, Birmingham .. ..            | Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham       |
| Hart, Blackburn .. ..               | Hart Thomas, Ltd., Blackburn, England                             |
| Hartnell, Leeds .. ..               | Hartnell, Wilson & Co., Ltd., Volt Works, Kirkstall Rd., Leeds    |
| Hathorn, Leeds .. ..                | Hathorn, Davey & Co., Ltd., Sun Foundry, Leeds                    |
| Heap, Ltd., Ashton-under-Lyne ..    | Heap Jos. & Co., Ltd., Ashton-under-Lyne                          |
| Heenan, Manchester .. ..            | Heenan & Froude, Ltd., 4, Chapel Walks, Manchester                |
| Heenan, Worcester .. ..             | Heenan & Froude, Ltd., Worcester Engineering Works, Worcester     |
| Helical, Sewest, London .. ..       | Citroën Gear Co., Ltd., 22, Buckingham Gate, S.W. 1               |
| Hexagon, Leeds .. ..                | Kirby Banks Screw Co., Ltd., Leeds                                |
| Hick, Bolton .. ..                  | Hick, Hargreaves & Co., Ltd., Soho Works, Bolton                  |
| Hides, Manchester .. ..             | Cook E. J., Trinity Leather Works, Blackfriars, Manchester        |
| Higbro, Birmingham .. ..            | Higgs Bros., Sand Pits, Birmingham                                |
| Highgate, Shettleston .. ..         | Follock, Macnab & Highgate, Shettleston, Glasgow                  |

| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                                         |
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| Hindley, Bournemouth .. ..           | Hindley B. S., & Sons, Bournemouth, Dorset                                              |
| Hingley, Dudley .. ..                | Hingley N., & Sons, Ltd., Netherton Iron Works, Dudley                                  |
| Hobnalls, London .. ..               | Hobdell, Way & Co., Ltd., St. John's House, 124-5, Minories, E.                         |
| Hoffmann, Chelmsford .. ..           | Hoffmann Manufacturing Co., Ltd., Chelmsford                                            |
| Holting, Glasgow .. ..               | Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow                              |
| Holcroft's, Bilston .. ..            | Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire                        |
| Holding, Sheffield .. ..             | Holding John, & Co., Ltd., Sheffield                                                    |
| Hollingdrake, Stockport .. ..        | Hollingdrake H., & Son, Ltd., Princes St., Stockport                                    |
| Holmes, Newcastle-on-Tyne .. ..      | Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne                                   |
| Holt, Willetts, Cradley Heath .. ..  | Holt & Willetts, Lion Works, Cradley Heath                                              |
| Hopkinson, Huddersfield .. ..        | Hopkinson J., & Co., Ltd., Huddersfield                                                 |
| Hordern, Vesey St., Birmingham .. .. | Hordern & Mason, St. Mary's, Birmingham                                                 |
| Hornsby, Grantham .. ..              | Ruston & Hornsby, Ltd., Spittlegate Iron Works, Grantham                                |
| Horology, Birmingham .. ..           | Cooke James, & Son, 8 and 9, Wrentham Street, Birmingham                                |
| Horseley, Tipton .. ..               | Horseley Bridge & Engineering Co., Ltd., Tipton, Staffordshire                          |
| Horsepower, Cannon, London .. ..     | Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C.                       |
| Howden, Glasgow .. ..                | Howden Overseas Trading Co., Ltd., 1051 St. Vincent St., Glasgow                        |
| Howden, Glasgow .. ..                | Howden James, & Co., Scotland St., Glasgow                                              |
| Howell, Sheffield .. ..              | Howell & Co., Ltd., Brook Steel Works, Sheffield                                        |
| Hudson, Coatbridge .. ..             | Hudson Thomas, Ltd., Sheepsford Works, Coatbridge, N.B.                                 |
| Hukenn, Glasgow .. ..                | Kennedy's (Carntyne), Ltd., Shettleston, Glasgow                                        |
| Humidity, Bradford .. ..             | Davenport Engineering Co., Ltd., Harris St., Bradford                                   |
| Huwod, Fen., London .. ..            | Wood H., & Co., Ltd., 65, Fenchurch St., E.C.                                           |
| Hydraulic, Birmingham .. ..          | Birmingham Aluminium Castings (1903) Co., Ltd., Birmingham                              |
| Hydraulic, Leeds .. ..               | Middleton Robt., Sheepsar Foundry, Leeds                                                |
| Hydraulic, Liverpool .. ..           | Robertson Thos. R., 7, Hurst St., Liverpool                                             |
| Hydrogen, Glasgow .. ..              | Scott David, Polmadie, Glasgow                                                          |
| Hydrostatic, Phone, London .. ..     | East Ferry Road Engineering Works Co., Ltd., Millwall, E.                               |
| Hydroturbo, Wolverhampton .. ..      | Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Eng.                           |
| Hygearlim, Phone, London .. ..       | Hydraulic Gears, Ltd., Beaver Lane, Hammersmith, W. 6                                   |
| Hyredlim, Phone, London .. ..        | Hyatt, Ltd., 4, Thurloe Place, South Kensington, S.W.7                                  |
| Hyson, Nottingham .. ..              | Smith Bros., & Co. (Hyson), Ltd., Nottingham                                            |
| Igniter, Rugby .. ..                 | Lodge Bros. & Co., Rugby                                                                |
| Igranic, London .. ..                | Igranic Electric Co., Ltd., 147, Queen Victoria St., E.C.                               |
| Imperial, Keighley .. ..             | Keighley Gas & Oil Engine Co., Ltd., Imperial Works, Keighley                           |
| Impression, Newcastle-on-Tyne .. ..  | United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne                    |
| Incombust, Sowest, London .. ..      | Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W. 1                               |
| Incorrupt, Cent., London .. ..       | Cape Asbestos Co., Ltd., 23, King St., E.C. 2                                           |
| Indicator, Glasgow .. ..             | Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St.,                      |
| Indicator, Manchester .. ..          | Kirk Wheatley, Price & Co., Albert Square, Manchester [Glasgow]                         |
| Indices, London .. ..                | Kirk Wheatley, Price & Co., 46, Watling St., E.C.                                       |
| Induction, Birmingham .. ..          | Ellison George, Perry Bar, Birmingham                                                   |
| Ingenetric, New York .. ..           | International General Electric Co., Schenectady, New York, U.S.A.                       |
| Ingunnity, Glasgow .. ..             | Crockatt W., & Sons, Ltd., 64, Darnley St., Glasgow                                     |
| Ingersoll, London .. ..              | Ingersoll-Rand Co., 165, Queen Victoria Street, E.C.                                    |
| Ingot, Briton Ferry .. ..            | Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire                              |
| Ingot, Wishaw .. ..                  | Glasgow Iron & Steel Co., Ltd., Wishaw Iron & Steel Works, Wishaw                       |
| Ingots, Newcastle-on-Tyne .. ..      | Metallurgical Co., Ltd., Walker Gate, Newcastle-on-Tyne                                 |
| Inspect, London .. ..                | Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., S.W.                            |
| Instrument, Cambridge .. ..          | Cambridge & Paul Instrument Co., Ltd., Cambridge                                        |
| Insulator, Prescott .. ..            | British Insulated & Helsby Cables, Ltd., Prescott, Lancashire                           |
| Integral, Holborn, London .. ..      | Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 329, High Holborn, W.C. 1 |

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| Intensifier, London .. ..           | Middleton Robt., 22, Martin's Lane, Cannon St., B.C.                 |
| Intersection, London .. ..          | Piggott Thos., & Co., Ltd., 63, Queen Victoria St., B.C.             |
| Inventions, Eastbourne .. ..        | Howard Pneumatic Engineering Co., Ltd., Eastbourne                   |
| Iron, Calnescross .. ..             | Dudbridge Ironworks, Ltd., Stroud, Gloucestershire                   |
| Iron, Manchester .. ..              | Hall & Pickles, Ltd., Port St., Manchester                           |
| Iron, Wednesbury .. ..              | Wason W., & Co., Ltd., Moxley, Wednesbury                            |
| Ironclad, Manchester .. ..          | Lancashire Dynamo & Motor Co., Ltd., Trafford Park, Manchester       |
| Ironfisted, Vic., London .. ..      | Vermot, Ch., Valere Mabilie & R. Pelegrius, 83, Victoria St., S.W. 1 |
| Ironheads, London .. ..             | Notcutt, Walter P. Ltd., 8, White St., Moorfields, B.C.              |
| Ironware, Charles, London .. ..     | Millwall Engineering Co., Ltd., 21, Panton St., S.W. 1               |
| Ironworks, Butterley .. ..          | Butterley Co., Ltd., Butterley                                       |
| Irony, Bolton .. ..                 | Booth John, & Sons, Hulton Steel Works, Bolton                       |
| Isler, London .. ..                 | Isler C., & Co., Ltd., Bear Lane, Southwark St., S.E. 1              |
|                                     |                                                                      |
| Jackson, Claycross .. ..            | Clay Cross Co., Clay Cross, near Chesterfield                        |
| Jacksons, Manchester .. ..          | Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester        |
| Jacobshuck, Hartford .. ..          | Jacobs Manufacturing Co., Hartford, Conn., U.S.A.                    |
| James Keith, London .. ..           | Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, B.C.       |
| Jamsler, Schaffhouse .. ..          | Amaler Alfred J., & Co., Schaffhouse, Switzerland                    |
| Jardine, Nottingham .. ..           | Jardine John, Ltd., Deering St., Nottingham                          |
| Jeffrey, Columbus .. ..             | Jeffrey Manufacturing Co., 910, North Fourth St., Columbus, Ohio,    |
| Jenkins, Retford .. ..              | Jenkins W. J., & Co., Ltd., Beehive Works, Retford, Notts. [U.S.A.]  |
| Jenkins, Rotherham .. ..            | Jenkins R., & Co., Ltd., Rotherham, Eng.                             |
| Jenertan, Phone, London .. ..       | Börving & Co., Ltd., 56, Kingsway, W.C. 2                            |
| Jessops, Sheffield .. ..            | Jessop W., & Sons, Ltd., Brightside Works, Sheffield                 |
| Joining, Ardrossan .. ..            | Metallic Manufacturing Co., Ltd., Ardrossan                          |
| Jonas, Sheffield .. ..              | Jonas & Colver, Ltd., Sheffield                                      |
| Joreldesk, Fen., London .. ..       | Reld, John (London), Ltd., 4, Lloyd's Avenue, E.C. 3                 |
| June, Charlton, London .. ..        | Johnson & Phillips, Ltd., Charlton, S.E. 7                           |
| Jymotorsel, Finsquare, London .. .. | Ferguson, C. J., & Sons, 54, Chiswell St., E.C. 3                    |
|                                     |                                                                      |
| Kalamazet, Birmingham .. ..         | Kalamazoo, Ltd., Kalamazoo Works, Northfield, Birmingham             |
| Kalker, Coventry .. ..              | Kalker B., & Co., Much Park St., Coventry                            |
| Karriakar, Huddersfield .. ..       | Clayton & Co. (Huddersfield), Ltd., Karrier Works, Huddersfield      |
| Kearns, Atrincham .. ..             | Kearns H. W., & Co., Ltd., Broadheath, near Manchester               |
| Keay, Birmingham .. ..              | Keay E. C. & J., Ltd., Corporation St., Birmingham                   |
| Kelvin, Estrand, London .. ..       | Armstrongs & Main, Ltd., Australia House, Strand, W.C.               |
| Kentobin, Westcent, London .. ..    | Kent George, Ltd., 199, High Holborn, W.C. 1                         |
| Kenyon, Dukinfield .. ..            | Kenyon Wm. & Sons, Ltd., Dukinfield, Manchester                      |
| Keystone, Glasgow .. ..             | Positive Lock Washer Co., 118-122, James Watt St., Glasgow           |
| Khartoum, Cent., London .. ..       | United States Rubber Co., Ltd., 47 & 48, Farringdon St., E.C. 4      |
| Kilbowie, London .. ..              | Tallis D. & J., Ltd., 1, Southwark Bridge Buildings, S.B             |
| Kilbrinck, Ave., London .. ..       | Kilmarneck Engineering Co., Ltd., 10, Coleman St., E.C. 2            |
| Kvaerner, Kristiania .. ..          | A/S Kvaerner Brug, Kristiania, Norway                                |
| Kwasaspre, London .. ..             | Culras Products, Ltd., 39, Victoria St., Westminster, S.W. 1         |
| Kynoch, Birmingham .. ..            | Kynoch, Ltd., Lion Works, Witton, Birmingham                         |
|                                     |                                                                      |
| Lambourne, Manchester .. ..         | Lambourne & Co., Ltd., Openshaw, Manchester                          |
| Laminated, Glasgow .. ..            | Hendry James, Laminated Leather Works, Bridgeton, Glasgow            |
| Land, Grantham .. ..                | Grantham Boiler & Crank Co., Ltd., Grantham                          |
| Lang, Johnstone .. ..               | Lang John, & Sons, Johnstone, N.B.                                   |

| TELEGRAPHIC ADDRESS.                     | NAME AND ADDRESS OF ADVERTISER.                                                                       |
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| Lapweld, Glasgow .. ..                   | Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow                                                      |
| Lathe, Coventry .. ..                    | Herbert Alfred, Ltd., Coventry                                                                        |
| Lathe, Halifax .. ..                     | Smith, Barker & Willson, Ltd., Halifax                                                                |
| Lathe, Shipley .. ..                     | Barker, Spink, Lease & Co., Rosse Works, Shipley, Yorks                                               |
| Lathes, Birmingham .. ..                 | Taylor Charles (Birmingham), Ltd., Bartholomew Square, Birmingham                                     |
| Lathes, Felling .. ..                    | Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne [ham]                                             |
| Lathes, Hyde .. ..                       | Macnab John (Machinery), Ltd., Mary St., Hyde                                                         |
| Lathes, Stoughton .. ..                  | Drummond Brothers, Ltd., Engel Works, near Guildford                                                  |
| Leathers Company, Altrincham .. ..       | Leathers Company (Altrincham), Limited, Altrincham, Manchester                                        |
| Lees, Hollinwood .. ..                   | Lees T. & R., Ltd., Hollinwood, near Manchester                                                       |
| Lenox, Millwall .. ..                    | Brown, Lenox & Co. (London), Ltd., Poplar, B.                                                         |
| Lesorus, Hammer, London .. ..            | Rosser & Russell                                                                                      |
| Lidgerwood, London .. ..                 | Lidgerwood Ltd., Friars House, New Broad St., E.C.                                                    |
| Lifter, Coventry .. ..                   | Bretts Patent Lifter Co., Ltd., Coventry                                                              |
| Lifting, Leicester .. ..                 | Taylor & Hubbard, Leicester                                                                           |
| Lifting, Stanningley .. ..               | Butler Samuel, & Co., Ltd., Stanningley, near Leeds                                                   |
| Lightning, Stafford .. ..                | Universal Grinding Wheel Co., Ltd., Stafford                                                          |
| Lignum, Manchester .. ..                 | Southern James W., & Son, Ltd., Store St., Manchester                                                 |
| Lilleshall, Oakengates .. ..             | Lilleshall Co., Ltd., Oakengates, Shropshire                                                          |
| Linking, Battsquare, London .. ..        | Hunt Thomas, & Sons, Bridge Rd. West, Battersea, S.W. 11                                              |
| Lioncelle, London .. ..                  | Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, B.                                        |
| Lipogram, London .. ..                   | Lipcombe Fredk., & Co., 49, Queen Victoria St., E.C. 4                                                |
| Llewellyn, Bristol .. ..                 | Llewellyn Machine Co., Bristol, England                                                               |
| Lloyds, Birmingham .. ..                 | Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham                                               |
| Loebnitz, Renfrew .. ..                  | Loebnitz & Co., Ltd., Renfrew, Scotland                                                               |
| Lockean, London .. ..                    | Maye Jos., & Sons, Ltd., 93, High Holborn, W.C.                                                       |
| Lockfast, London .. ..                   | Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., B.C.                                           |
| Lockstone-Smith, London .. ..            | Farmer & Co., 150, St. John St., Clerkenwell, E.C. 1                                                  |
| Leco, Bristol .. ..                      | Avonside Engine Co., Ltd., Bristol                                                                    |
| Leco, Glasgow .. ..                      | North British Locomotive Co., Ltd., Administration Building, 110, Flemington St., Springburn, Glasgow |
| Leco, Gorton .. ..                       | Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester                                                |
| Leco, Leeds .. ..                        | Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds                                                  |
| Locomotive, Newcastle .. ..              | Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne                                               |
| Locosuper, Phone, London .. ..           | Superheater Corporation, Ltd., 14, New Burlington St., W. 1                                           |
| Logic, Birmingham .. ..                  | McCowan, Wild & Co., Hurst St., Birmingham                                                            |
| Longmans, London .. ..                   | Longmans, Green & Co., 39, Paternoster Row, B.C.                                                      |
| Lowtemcar, Phone, London .. ..           | Low Temperature Carbonisation, Ltd., 14 & 16, Cockspur St., S.W. 1                                    |
| Lunken, London .. ..                     | Lunken Company, Ltd., 35, Great Dover St., S.B.                                                       |
| Lustroro, Phone, London .. ..            | Graphite Products, Ltd., 218-220, Queen's Rd., Battersea, S.W.                                        |
| Lyncean, London .. ..                    | Contrado Condenser & Kinetic Air Pump Co., Ltd., 3, Central Buildings, Westminster, S.W.              |
| Lysaght, Bristol .. ..                   | Lysaght John, Ltd., St. Vincent Ironworks, Bristol                                                    |
| Machinery, Birmingham .. ..              | Hands John, & Sons, Ltd., Cardigan Works, Birmingham                                                  |
| Machinery, Chapel St., Stalybridge .. .. | Maycock, Alex. W., Chapel St., Stalybridge                                                            |
| Machinery, Dursley .. ..                 | Lister R. A., & Co., Ltd., Dursley, Glos.                                                             |
| McKechnie, Birmingham .. ..              | McKechnie Brothers, Ltd., Rotton Park St., Birmingham                                                 |
| MacKisg, London .. ..                    | McKenzie & Holland, Ltd., 53, Victoria St., S.W.                                                      |
| MacLellan, Glasgow .. ..                 | MacLellan P. & W., Ltd., Clutha Works, Glasgow                                                        |
| MacLellan, London .. ..                  | MacLellan P. & W., Ltd., 108A, Cannon St., B.C.                                                       |
| Macmarsh, New York .. ..                 | McClintic-Marshall Products Co., 50, Church St., New York, U.S.A.                                     |
| Macnab, Woodley .. ..                    | Follock & Macnab, Ltd., Bredbury, Stockport                                                           |
| Macneil, Glasgow .. ..                   | McNeil C., Ltd., Kinning Park Hydraulic Forge, Glasgow                                                |

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| Maconie, Glasgow .. ..                | Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow                      |
| McCord, Detroit .. ..                 | McCord Manufacturing Co., Inc., Detroit, Michigan, U.S.A.                             |
| McRobie, Glasgow .. ..                | McRobie John, & Sons, 94, Elliott St., Glasgow                                        |
| Magnet, Manchester .. ..              | Electromotors, Ltd., Openshaw, Manchester                                             |
| Magnoller, London .. ..               | Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., B.C. |
| Malden, Hyde .. ..                    | Malden & Co., Ltd., Hyde, Cheshire                                                    |
| Manageable, London .. ..              | Thornycroft J. I., & Co., Ltd., 5-11, Vauxhall Bridge Rd., S.W.                       |
| Manlove, London .. ..                 | Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.                            |
| Manlove, Nottingham .. ..             | Manlove, Allott & Co., Ltd., Nottingham                                               |
| Manning, Leeds .. ..                  | Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds                                |
| Markt, Smith, London .. ..            | Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., E.C. 1                         |
| Marsden, Leeds .. ..                  | Marsden H. R., Ltd., Soho Foundry, Leeds                                              |
| Marshall, Gainsborough .. ..          | Marshall, Sons & Co., Ltd., Gainsborough                                              |
| Masonica, Boston, U.S.A. .. ..        | Mason Regulator Co., Boston, Mass., U.S.A.                                            |
| Maseys, Openshaw .. ..                | Massey B. & S., Ltd., Openshaw, Manchester                                            |
| Matterson, Shawclough, Rochdale .. .. | Matterson, Ltd., Shawclough, Rochdale                                                 |
| Mandalay, Coventry .. ..              | Mandalay Motor Co., Ltd., Parkside, Coventry                                          |
| Meldrum, Altrincham .. ..             | Meldrums Ltd., Timperley, near Manchester                                             |
| Melles, London .. ..                  | Kerr, Stuart & Co., Ltd., 5, Broad St. Place, B.C.                                    |
| Meloid, Yoker .. ..                   | Bull's Metal and Meloid Co., Ltd., Yoker, near Glasgow                                |
| Merryweather, London .. ..            | Merryweather & Sons, Ltd., 63, Long Acre, W.C.                                        |
| Mesmeric, London .. ..                | Firth Thos., & Sons, Ltd., 8, The Sanctuary, Westminster, S.W.                        |
| Metalcibles, London .. ..             | Barnard, H. B. & Sons, Glyn St., Vauxhall, S.E. 11                                    |
| Metallic, Bradford .. ..              | United States Metallic Packing Co., Ltd., Soho Works, Bradford                        |
| Metallic, Glasgow .. ..               | Murray, McVinnie & Co., Ltd., Mavisbank Quay, Glasgow                                 |
| Metallics, Manchester .. ..           | Johnson Richard, Clapham & Morris, Ltd., Lever St., Manchester                        |
| Metalose, Wood, London .. ..          | Interlock Metal Hose Co., River Park Rd., Wood Green, N.                              |
| Metals, West Bromwich .. ..           | Adams & Benson, Ltd., Albion, West Bromwich                                           |
| Method, Birmingham .. ..              | Flayer W. & J., Birmingham                                                            |
| Metrovick, Manchester .. ..           | Metropolitan-Vickers Electrical Co., Ltd., Trafford Park, Manchester                  |
| Mexprodex, Ave., London .. ..         | Anglo-Mexican Petroleum Products Co., Ltd., Finsbury Circus, B.C.                     |
| Michbeare, Vic., London .. ..         | Micheel Bearings, Ltd., 3, Central Buildings, Westminster, S.W. 1                     |
| Mikron, Bienne .. ..                  | Mikron, Ltd., Madretsch, Bienne, Switzerland                                          |
| Mildsteel, Hay Mills .. ..            | Mild Steel Castings, Ltd., Tyseley, Birmingham                                        |
| Mirreles, Glasgow .. ..               | Mirreles Watson Co., Ltd., Scotland St., Glasgow                                      |
| Milton, Birmingham .. ..              | Hunt & Milton, Ltd., Oozells St., North, Birmingham                                   |
| Moderate, Glasgow .. ..               | Semple Robert, 179, West George St., Glasgow                                          |
| Modernize, Manchester .. ..           | Clyne Engineering Co., Ltd., 94, Market St., Manchester                               |
| Monotype, Fleet, London .. ..         | Lanston Monotype Corporation, Ltd., 43, Fetter Lane, E.C. 4                           |
| Moorlands Eng. Co., Ltd., Leek .. ..  | Moorlands Engineering Co., Ltd., Leek, Staffs.                                        |
| Motoburk, Vic., London .. ..          | Burckhardt Engineering Works, 26, Victoria St., S.W. 1                                |
| Motogas, Paris .. ..                  | Cie. des Moteurs "National," 32, Rue des Mathurins, Paris                             |
| Motor, Sheffield .. ..                | Davy Brothers, Ltd., Sheffield                                                        |
| Motor, Bedford .. ..                  | Motor Rail & Tram Car Co., Simplex Works, Bedford                                     |
| Multitube, Annan .. ..                | Cochran & Co., Annan, Ltd., Annan, N.B.                                               |
| Mumford, Colchester .. ..             | Mumford A. G., Ltd., Culver St. Engineering Works, Colchester                         |
| Muntz, West Bromwich .. ..            | Munts P. H., & Co., Ltd., Alexandra Works, West Bromwich                              |
| Munzing, Sedist, London .. ..         | Munzing H., Ltd., 90-96, Union St., S.E. 1                                            |
| Musgrave Limited, Belfast .. ..       | Musgrave & Co., Ltd., Belfast                                                         |
| Myren, Kristiania .. ..               | Jensen J. & A., & Dahl, Kristiania, Norway                                            |
| National, Ashton-under-Lyne .. ..     | National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester                          |
| National, Manchester .. ..            | National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage, [Manchester      |
| Nautical, Glasgow .. ..               | Mechans Limited, Scotstoun Iron Works, Glasgow                                        |

| TELEGRAPHIC ADDRESS.                               | NAME AND ADDRESS OF ADVERTISER.                                                       |
|----------------------------------------------------|---------------------------------------------------------------------------------------|
| Negretti, London .. ..                             | Negretti & Zambra, 38, Holborn Viaduct, E.C.                                          |
| Nelson, Motherwell .. ..                           | Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell            |
| Nerleak, Birmingham .. ..                          | Serck Radiators, Ltd., Warwick Rd., Greet, Birmingham                                 |
| Newalls, Newcastle-on-Tyne .. ..                   | Newalls Insulation Co., Ltd., Mosley St., Newcastle-on-Tyne                           |
| Newbold, London .. ..                              | Newbold Walter & Co., Ltd., 22, Martin Lane, Cannon St., E.C. 4                       |
| Newcrane .. ..                                     | Northern Crane Works, Ltd., Walkerville, Ontario, Canada                              |
| Newcomen, Birmingham .. ..                         | Savery T. A., & Co., Ltd., Newcomen Works, Birmingham                                 |
| News, Wallsend .. ..                               | North-Eastern Marine Engineering Co., Ltd., Wallsend-on-Tyne                          |
| Newton, Sheffield .. ..                            | Newton, Chambers & Co., Ltd., Thornccliffe Ironworks, near Sheffield                  |
| Nichols, Engineers, Gateshead .. ..                | Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), North-<br>allerton, Yorks. |
| Nieuplane, London .. ..                            | Picard A., 4, New Burlington St., W. 1                                                |
| Nilesco, New York .. ..                            | Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A.                                |
| Nillacs, London .. ..                              | Niles-Bement-Pond Co., 23 & 25, Victoria St., Westminster, S.W.                       |
| Nonnald, Sowerth, London .. ..                     | British Fire Appliances Co., Ltd., 109, Victoria St., S.W. 1                          |
| Nucleoim, Phone, London .. ..                      | Colley Engineering & Machinery Co., Clun House, 17, Surrey St.,<br>Strand, W.C. 2     |
| Nu-Tallon, London .. ..                            | British Nu-Tal Co., 18, Princes St., Cavendish Square, W. 1                           |
| Oakey, London .. ..                                | Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.B.                                |
| Obispalla, N.Y., U.S.A. .. ..                      | Wheeler Condenser & Engineering Co., Carteret, N.J., U.S.A.                           |
| Ocean, Sheffield .. ..                             | Standard Piston Ring & Engineering Co., Ltd., Premier Works, Don<br>Rd., Sheffield    |
| Oceanilla, Westrand, London .. ..                  | Stone J., & Co., Ltd., Oceanic House, 1A, Cockspur St., S.W. 1                        |
| Octagon, Birmingham .. ..                          | British Rolling Mills, Ltd., Cleveland St., Birmingham                                |
| Oildag, Vic., London .. ..                         | Acheson E. G., Ltd., 40, Wood St., S.W. 1                                             |
| Oldens, Birmingham .. ..                           | Youngs, Ryland St. Works, Birmingham                                                  |
| Olkenwelo, London .. ..                            | Wells (Henry) Oil Co., 11, Haymarket S.W. 1                                           |
| One Hundred Ruggles St., Rox-<br>bury, Mass. .. .. | Boston Scale & Machine Co., Boston, Mass., U.S.A.                                     |
| Olecomachi, Vic., London .. ..                     | Costs Machine Tool Company, Ltd., 14, Palmer St., Westminster, S.W. 2                 |
| Opedeidec, Estrand, London .. ..                   | Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.                    |
| Orders, Cannon, London .. ..                       | Electromotors Ltd., 49, Queen Victoria St., E.C. 4                                    |
| Ordance, Coventry .. ..                            | Coventry Ordnance Works, Ltd., Coventry                                               |
| Ordance, Keighley .. ..                            | Dickinson Machine Tool Co., Ltd., Devonshire Works, Keighley                          |
| Original, Manchester .. ..                         | Cameron John, Ltd., Oldfield Rd. Ironworks, Salford                                   |
| Osborn, Sheffield .. ..                            | Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield                              |
| Otto, Manchester .. ..                             | Crossley Bros., Ltd., Openshaw, Manchester                                            |
| Outfitter, Glasgow .. ..                           | Fableys Ltd., 72-96, Jamaica St., Glasgow                                             |
| Outli, Oerlikon .. ..                              | Swiss Machine Tool Works, Oerlikon, near Zurich, Switzerland                          |
| Pagefield, Wigan .. ..                             | Walker Bros. (Wigan), Ltd., Pagefield Iron Works, Wigan                               |
| Pare, Coventry .. ..                               | Pare, Ltd., Clarence Works, Lockhurst Lane, Coventry                                  |
| Parker, Derby .. ..                                | Parker Foundry Co., Ltd., Derby                                                       |
| Parker, Duuna Lane, Leicester .. ..                | Parker Frederick, West Bridge, Leicester                                              |
| Patterson, Bradford .. ..                          | A 1 Manufacturing Co., Sunbridge Rd., Bradford                                        |
| Paul, Dumbarton .. ..                              | Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton                                 |
| Paxman, Colchester .. ..                           | Davey, Paxman & Co., Ltd., Standard Works, Colchester                                 |
| Paxman, Phone, London .. ..                        | Davey, Paxman & Co., Ltd., Central House, Kingsway, W.C. 2                            |
| Paynes, Southampton .. ..                          | Summers & Payne, Ltd., Southampton                                                    |
| Pearson, Dublin .. ..                              | Smith & Pearson, Ltd., Newcomen Ironworks, Dublin                                     |



| TELEGRAPHIC ADDRESS.                    | NAME AND ADDRESS OF ADVERTISER.                                                               |
|-----------------------------------------|-----------------------------------------------------------------------------------------------|
| Peckett, Bristol .. ..                  | Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol                                         |
| Pedestal, Glasgow .. ..                 | Govan Shafting & Engineering Co., Ltd., Govan, Glasgow                                        |
| Pencrancy, Helborn, London .. ..        | Butcher Henry, 63 & 64, Chancery Lane, W.C. 2                                                 |
| Penetration, London .. ..               | Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, E.C.                                 |
| Penman, Glasgow .. ..                   | Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow                                              |
| Penstock, Langley, Worcs. .. ..         | Ham, Baker & Co., Ltd., Langley Green, Birmingham                                             |
| Percussion, Bristol .. ..               | Bristol Pneumatic Tools, Ltd., 140, Victoria St., Bristol                                     |
| Persistent, Liverpool .. ..             | Everitt & Co., Ltd., 40, Chapel St., Liverpool                                                |
| Petelobus, Maidstone .. ..              | Tilling-Stevens Motors, Ltd., Maidstone                                                       |
| Potters, Yeovil .. ..                   | Petters, Ltd., Nautilus Works, Yeovil                                                         |
| Phoenix, Paisley .. ..                  | Fleming & Ferguson, Ltd., Paisley, near Glasgow                                               |
| Pickering, Wislaw .. ..                 | Pickering R. Y., & Co., Ltd., Wislaw, near Glasgow                                            |
| Picketts, Hove .. ..                    | Picketts, Ltd., Mortimer Works, Hove, Sussex                                                  |
| Pickles, Engineers, Hebden Bridge .. .. | Pickles, John & Son, (Engineers), Ltd., Hebden Bridge, Yorks.                                 |
| Pickwick, Rand, London .. ..            | Chapman & Hall, Ltd., 11, Henrietta St., W.C.                                                 |
| Pinsons, Birmingham .. ..               | St. George's Engineering Co., Brearley St., Birmingham                                        |
| Piston, Sheffield .. ..                 | Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield                                           |
| Pistons, Manchester .. ..               | Lancaster & Tonge, Ltd., Pendleton, near Manchester                                           |
| Pistorings, Coventry .. ..              | British Piston Ring Co., Ltd., Holbrook Lane, Coventry                                        |
| Placers, Halifax .. ..                  | Redman C., & Sons, Ltd., Kingston, Halifax                                                    |
| Planetary, Phone, London .. ..          | Popes Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W. 10                                  |
| Platt, Wednesbury .. ..                 | Platt Samuel, Ltd., Wednesbury                                                                |
| Plenty, Newbury .. ..                   | Plenty & Son, Ltd., Newbury, Berkshire                                                        |
| Plungers, Birmingham .. ..              | Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham                                         |
| Pneucleste, Sewest, London .. ..        | Stevens Clement, Pneumatic Engineering Co., Ltd., 28, Spenser St.,<br>Buckingham Gate, S.W. 1 |
| Pneumatoid, Vic., London .. ..          | Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W.                                  |
| Pneumelin Telow, London .. ..           | Michell Tyre Co., Ltd., 81, Fulham Rd., Chelsea, S.W.                                         |
| Polar, Liverpool .. ..                  | Liverpool Refrigerating Co., Ltd., Colonial House, Liverpool                                  |
| Polaris, London .. ..                   | Heath & Co., Ltd., New Eltham, S.E. 9                                                         |
| Polly, Led., London .. ..               | London & Lancashire Fire Insurance Co., Ltd., 155, Leadenhall St.,<br>E.C.                    |
| Pollak, Manchester .. ..                | Hill W. W., Son & Wallace Ltd., Elton St., Broughton, Manchester                              |
| Polyphase, London .. ..                 | Witten-Kraemer Electric Tool & Heat Works, Witton, Birmingham                                 |
| Pontefx, London .. ..                   | Pontifex & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C.                            |
| Portend, Ave., London .. ..             | Association of British Driving Chain Manufacturers, Bassishaw House,<br>Basinghall St., E.C.  |
| Possil, Glasgow .. ..                   | Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow                                         |
| Potential, Newcastle-on-Tyne .. ..      | Jennings Edward J., West Walls, Newcastle-on-Tyne                                             |
| Pott, Motherwell .. ..                  | Pott, Cassells & Williamson, Motherwell, near Glasgow                                         |
| Power, Cathcart .. ..                   | Macfarlane Engineering Co., Ltd., Netherlee Rd., Cathcart                                     |
| Powrting, Ave., London .. ..            | Powertie Steam Jointing Co., Ltd., 16 & 17, Devonshire Sq., E.C. 2                            |
| Pratchitt, Engineers, Carlisle .. ..    | Pratchitt Brothers, Denton Ironworks, Carlisle                                                |
| Precision, Coventry .. ..               | Morton & Weaver, Cox St., Coventry                                                            |
| Prekion Mytholmroyd .. ..               | Crossley H. P., & Ackroyd, Mytholmroyd, Yorks                                                 |
| Precooler, Shalford .. ..               | Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, nr.<br>Guildford, Surrey     |
| Premediate, London .. ..                | Harris & Atkins, 56, Blackfriars Rd., S.E. 1                                                  |
| Premier, Sandiacre .. ..                | Premier Gas Engine Co., Ltd., Sandiacre, Nottingham                                           |
| Press, Leeds .. ..                      | Lee & Co. (Leeds), Ltd., Neville Works, Bland Rd., Leeds                                      |
| Presses, Birmingham .. ..               | Furden Charles, Ltd., 262, Corporation St., Birmingham                                        |
| Pressure, Glasgow .. ..                 | Cockburn A., & Co., Gateside St., Glasgow                                                     |
| Pressure, Liverpool .. ..               | Campbell & Isherwood, Ltd., Bootle, Nr. Liverpool                                             |
| Priestman, Hull .. ..                   | Priestman Bros., Ltd., Holderness Foundry, Hull                                               |
| Priestman, London .. ..                 | Priestman Bros., Ltd., 28, Victoria St., S.W. 1                                               |
| Princcps, Sheffield .. ..               | Princcps & Co., Sheffield                                                                     |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                                  |
|---------------------------------|----------------------------------------------------------------------------------|
| Principlum, Westcent, London .. | Wellman Smith Owen Engineering Corporation, Ltd., King's House, Kingsway, W.C. 2 |
| Printeries, Cent., London ..    | Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C. 2                        |
| Processes, Westcent, London ..  | Electro-Metals, Ltd., Imperial Buildings, Kingsway, W.C.                         |
| Proctor, Burnley .. ..          | Proctor James, Ltd., Burnley, Lancashire                                         |
| Prodigious, Glasgow .. ..       | Mayor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow                          |
| Proells, London .. ..           | Engineering Supplies, Ltd., Suffolk House, 4, Laurence Pountney Hill,            |
| Profanity, Phone, London ..     | Hoyt Metal Co., Ltd., Deodar Rd., Putney, S.W. 15 [E.C.]                         |
| Proflie, Coventry .. ..         | Webster & Bennett, Ltd., Foleshill, Coventry                                     |
| Prominent, Liverpool .. ..      | Rowse & Co., 1, Dawson St., Whitechapel, Liverpool                               |
| Promptitude, London .. ..       | Baldwins Ltd., 3, St. Helens Place, Bishopsgate, B.C.                            |
| Provanside, Glasgow .. ..       | Stevens A. & P., 181, St. James' Rd., Glasgow                                    |
| Publish, Westrand, London ..    | MacMillan & Co., Ltd., St. Martin's St., W.C. 2                                  |
| Pulleys, Birstall .. ..         | Douglas, Lawson & Co., Birstall, near Leeds                                      |
| Pulsometer, London .. ..        | Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.                          |
| Pulsometer, Reading .. ..       | Pulsometer Engineering Co., Ltd., Nine Blms Ironworks, Reading,                  |
| Pulsometer, Glasgow .. ..       | Pulsometer Engineering Co., 160, Vincent St., Glasgow [Berks.]                   |
| Pulsometer, Leeds .. ..         | Pulsometer Engineering Co., Ltd., 15, King St., Leeds                            |
| Pulsometer, Liverpool .. ..     | Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool                       |
| Pulsometer, Manchester .. ..    | Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester       |
| Pump, Bedford .. ..             | Allen W. H., Sons & Co., Ltd., Queen's Engineering Works, Bedford                |
| Pump, London .. ..              | Allen W. H., Sons & Co., Ltd., 1, Queen Anne's Chambers, S.W.                    |
| Pumping, Westcent, London ..    | Worthington Pump Co., Ltd., Queen's House, Kingsway, W.C.                        |
| Pumps, Clydebank .. ..          | Dawson & Downie, Ltd., Elgin Works, Clydebank, Scotland                          |
| Pumps, Hamilton .. ..           | Downton, J. & Co., Ltd., Hamilton, Scotland                                      |
| Pumps, Manchester .. ..         | Pearn F., & Co., Ltd., West Gorton, Manchester                                   |
| Pumps, Rodley .. ..             | Leeds Engineering & Hydraulic Co., Ltd., Rodley, Nr. Leeds.                      |
| Pumps, Stoke-on-Trent .. ..     | Shore Thos., & Sons, Ltd., Etruria, Stoke-on-Trent                               |
| Quality, Worcester .. ..        | Hardy & Padmore, Ltd., Worcester Foundry, Worcester                              |
| Quartz, Accrington .. ..        | Guthrie & Co., St. James's Chambers, Accrington                                  |
| Racerline, Phone, London ..     | Russell Oil Co., 36, Short Rd., Stratford, E. 15                                 |
| Rails, Widnes .. ..             | White Rd., & Sons, Widnes, Lancs.                                                |
| Railway, Darlington .. ..       | McLachlan & Co., Ltd., Darlington                                                |
| Ramshay, Birmingham .. ..       | Ramshay & Marshall, Ltd., Birmingham                                             |
| Ransford, Leeds .. ..           | Cawood G. R. & Co., 4, South Parade, Leeds                                       |
| Ransomaco, Sowest, London ..    | Ransomes Machinery Co. (1920), Ltd., 14 & 16, Grosvenor Gardens, S.W. 1          |
| Ransome, Cent, London .. ..     | Ransome A., & Co., Ltd., 63, Queen Victoria St., B.C.                            |
| Ransome, Newark .. ..           | Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent                          |
| Ransomes, Ipswich .. ..         | Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich                          |
| Rapidising, London .. ..        | Davis B. J., Great Eastern Rd., Stratford, B.                                    |
| Ratchet, Glasgow .. ..          | Davie Bros., Ltd., Glasgow                                                       |
| Raworthic, Vic., London ..      | Raworth, John E. & Moss, 75, Victoria St., S.W. 2                                |
| Readers, Nottingham .. ..       | Reader B., & Sons, Phoenix Works, Cremorne St., Nottingham                       |
| Reavell, Ipswich .. ..          | Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich                           |
| Recording, Manchester .. ..     | Lea Recorder Co., Ltd., 28, Deansgate, Manchester                                |
| Reddaway, London .. ..          | Reddaway F., & Co., Ltd., 50 & 51, Lime St., B.C.                                |
| Rediac, Edinburgh .. ..         | Calders, Ltd., 10A, George St., Edinburgh                                        |
| Redpath, Edinburgh .. ..        | Redpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh                      |

| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                             |
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| Reducing, Glasgow .. ..              | Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow                        |
| Reid, Linwood .. ..                  | Reid Gear Co., Linwood, near Paisley                                        |
| Rekrap, Birmingham .. ..             | Precision Gauges, Ltd., Wrentham St., Birmingham                            |
| Repairs, Immingham Dock Station      | Humber Graving Dock & Engineering Co., Ltd., King's Dock, Immingham         |
| Repeat, Birmingham .. ..             | Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham           |
| Repsor, Portsmouth .. ..             | Vosper & Co., Ltd., Broad St., Portsmouth                                   |
| Reversing, Liverpool .. ..           | Kitchen's Reversing Rudder Co., Ltd., 711, Royal Liver Buildings, Liverpool |
| Revolving, Birmingham .. ..          | Timbrell & Wright Machine Tool & Engineering Co., Ltd., Birmingham          |
| Reyrolle, Hebburn .. ..              | Reyrolle A., & Co., Ltd., Hebburn-on-Tyne                                   |
| Rheostat, Glasgow .. ..              | Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow                           |
| Rhodes, Hartford .. ..               | Rhodes Manufacturing Co., Hartford, Conn., U.S.A.                           |
| Richards, Altrincham .. ..           | Richards Geo., & Co., Ltd., Broadheath, near Manchester                     |
| Richards, Wednesbury .. ..           | Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury                     |
| Richardsons, Hartlepool .. ..        | Richardsons, Westgarth & Co., Ltd., Hartlepool Engine Works,                |
| Ridel, Glasgow .. ..                 | Riddell, John H., Ltd., 40, St. Enoch Square, Glasgow [Hartlepool           |
| Rivetter, Leeds .. ..                | Berry Henry, & Co., Ltd., Croydon Works, Leeds                              |
| Robey, Lincoln .. ..                 | Robey & Co., Ltd., Lincoln                                                  |
| Robinson, Rochdale .. ..             | Robinson T., & Son, Ltd., Rochdale                                          |
| Robson, Shipley .. ..                | Robson John (Shipley), Ltd., Shipley, Yorkshire                             |
| Roe, West Drayton .. ..              | Power Plant Co., Ltd., West Drayton, Middlesex                              |
| Rocket, Darlington .. ..             | Stephenson Robert, & Co., Ltd., Darlington                                  |
| Roebuck, Phene, London .. ..         | Buck & Hickman, Ltd., 214, Whitechapel Rd., E. 1                            |
| Rose, Hull .. ..                     | Rose, Downs & Thompson, Ltd., Old Foundry, Hull                             |
| Rotherwood, Birmingham .. ..         | Gilman Frank, 9, Westfield Rd., Birmingham                                  |
| Rowan, Glasgow .. ..                 | Rowan David, & Co., 231, Elliot St., Glasgow                                |
| Rowson, Cent., London .. ..          | Rowson, Drew & Clydesdale, Ltd., 225, Upper Thames St., E.C.                |
| Ruspoli, London .. ..                | Smith S., & Sons, Ltd., 6, Grand Hotel Buildings, Trafalgar Sq., W.         |
| Ruston, Cannon, London .. ..         | Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4                      |
| Russell, Motherwell .. ..            | Russell G., & Co., Ltd., Motherwell, N.B.                                   |
| Ruston, Lincoln .. ..                | Ruston & Hornsby, Ltd., Sheaf Iron Works, Lincoln                           |
| Ryson, Chicago .. ..                 | Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.                             |
|                                      |                                                                             |
| Salter, West Bromwich .. ..          | Salter, Geo. & Co., Ltd., West Bromwich                                     |
| Sandon, Patricroft .. ..             | Browett Lindley, & Co., Ltd., Patricroft, Manchester                        |
| Sands, Colwick, Nottingham .. ..     | Sands Geo., & Son, Ltd., Colwick, Nottingham                                |
| Sandycroft, Hawarden .. ..           | Sandycroft Limited, near Chester                                            |
| Sankey, Wellington, Salop .. ..      | Sankey Joseph, & Sons, Ltd., Wellington, Shropshire                         |
| Satisfactory, Liverpool .. ..        | Cole Henry A., & Co., Ltd., Coronet Works, Liverpool                        |
| Satisfy, Glasgow .. ..               | Hamilton A. H., & Co., Possilpark, Glasgow                                  |
| Saturation, North-west, London .. .. | White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W. 1                |
| Saws, Birmingham .. ..               | Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet, Birmingham         |
| Scholarly, London .. ..              | Arnold Edward, 41 & 43, Maddox St., W.                                      |
| Scott, Keighley, 381 .. ..           | Scott Bros. (Keighley), Albion Works, Keighley                              |
| Scotubecco, Glasgow .. ..            | Scottish Tube Co., Ltd., 34, Robertson Street, Glasgow                      |
| Scout, Salisbury .. ..               | Scout Motors, Ltd., Churchfields, Salisbury                                 |
| Scow, Rutherglen .. ..               | Chalmers Wm., & Co., Ltd., Rutherglen, Scotland                             |
| Scrabvau, Vaux., London .. ..        | Buyers of Scrap Metal, Ltd., 23, King St., E.C. 2                           |
| Screened, Glasgow .. ..              | Conslund A., & Son, 3, Mitchell's St., Glasgow                              |
| Screens, Lincoln .. ..               | Penney & Porter (Engineers), Ltd., City Iron & Steel Works, Lincoln         |
| Screw, Preston .. ..                 | Friedenthal's, Ltd., River Engine Works, Preston                            |
| Scythes, Cent., London .. ..         | Skinner Chuck Co., 139, Queen Victoria St., E.C. 4                          |

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------|
| Seafeld, Manchester .. ..         | Steam Cylinder Lubricator Co., Ltd., Gordon Wks., Lower Broughton,                     |
| Seagers, Dartford .. ..           | Seagers, Ltd., Dartford [Manchester]                                                   |
| Sections, Leeds .. ..             | Dunlop & Ranken, Ltd., 47, Water Lane, Leeds                                           |
| Segment, Liverpool .. ..          | Brundrit Joseph, 14, Water St., Liverpool                                              |
| Selsoner, Cent., London .. ..     | Selson Engineering Co., Ltd., 85, Queen Victoria St., E.C. 4                           |
| Shanks, Johnstone .. ..           | Shanks Thomas, & Co., Union Ironworks, Johnstone, near Glasgow                         |
| Shaw, Wolverhampton .. ..         | Shaw John, & Sons (Wolverhampton), Ltd., Wolverhampton                                 |
| Shells, Edinburgh .. ..           | Victoria Brass Foundry Co., Ltd., Bonnington Rd., Edinburgh                            |
| Shepholst .. ..                   | Shepherd Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.                       |
| Shikari, Led., London .. ..       | Leopold Walford (London), Ltd., 29, Great St. Helens, E.C. 3                           |
| Shiplumb, Glasgow .. ..           | Houston J. W., & Co., Partick Cross, Glasgow                                           |
| Shipyard, Troon .. ..             | Alisa Shipbuilding Co., Ltd., Troon, N.B.                                              |
| Shorelinst, New York .. ..        | Shore Instrument & Mfg. Co., Van Wyck Av. & Carll St., Jamaica, New York, U.S.A.       |
| Showell, Stirchley, Showell .. .. | Showell B., & Sons, Ltd., Stirchley, Birmingham                                        |
| Siebs, Lamb., London .. ..        | Siebs, Gorman & Co., Ltd., Neptune Works, London, S.B.                                 |
| Siemens, Motherwell .. ..         | Lanarkshire Steel Co., Ltd., Motherwell                                                |
| Siemens, Woolwich .. ..           | Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 18                                   |
| Sightseer, London .. ..           | Stone J. B., & Co., Ltd., 135, Finsbury Pavement, B.C.                                 |
| Silently, London .. ..            | Parsons C. A., & Co., Ltd., 8, Victoria St., S.W.                                      |
| Silica, Liverpool .. ..           | Graves & Co., Ltd., 14, Water St., Liverpool                                           |
| Silvergray, Cannon, London .. ..  | India Rubber, Gutta Percha, and Telegraph Works Co., Ltd., 106, Cannon St., B.C.       |
| Silverline, London .. ..          | Baldwins Ltd., Orchard Place, Blackwall, B.                                            |
| Simcar, Manchester .. ..          | Simon-Carves, Ltd., 20, Mount St., Manchester                                          |
| Simons, Renfrew .. ..             | Simons W., & Co., Ltd., Renfrew, Scotland                                              |
| Simplicity, Birmingham .. ..      | Steel Belt Conveyors, Ltd., Norwich Union Chambers, Birmingham                         |
| Sirocco, Belfast .. ..            | Davidson & Co., Ltd., Sirocco Engineering Works, Belfast                               |
| Sisson, Gloucester .. ..          | Sisson W., & Co., Ltd., Gloucester                                                     |
| Skefko, Luton .. ..               | Skefko Ball Bearing Co., Ltd., Skefko Works, Luton, Beds.                              |
| Sleeper, Worcester, Mass. .. ..   | Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.                                     |
| Sloudeplim, Slough .. ..          | Slough Trading Co., Ltd., Slough, Bucks                                                |
| Smedleys, Belper .. ..            | Smedley Bros., Ltd., Belper, Derbyshire                                                |
| Smith, Rodley .. ..               | Smith Thos., & Sons (Rodley), Ltd., Steam and Electric Crane Works, Rodley, near Leeds |
| Smith's, Nottingham .. ..         | Smith Sydney, & Sons (Nottingham), Ltd., Nottingham                                    |
| Smidssoon, Kinderdijk .. ..       | Smit L., & Zoons, Scheeps en Werktuigbouw, Kinderdijk, near Rotterdam, Holland         |
| Sogenique, Cent., London .. ..    | Société Genevoise d'Instruments de Physique, 95, Queen Victoria St.,                   |
| Soho, Paisley .. ..               | Campbell & Calderwood, Soho Works, Paisley, Scotland [E.C. 4]                          |
| Sokalsig, London .. ..            | Sokal S., 1, Great James St., Bedford Row, W.C. 1                                      |
| Solconstru, Cannon, London .. ..  | Consolidated Construction Co., Ltd., 9, Cloak Lane, Cannon St., E.C. 4                 |
| Solution, Vic., London .. ..      | Vacuum Brake Co., 3 to 7, Old Queen St., Westminster, S.W. 1                           |
| Somers, Halesowen .. ..           | Somers, Walter, Ltd., Halesowen                                                        |
| Somraep, Vic., London .. ..       | Pearson S. & Son (Contracting Department), Ltd., 10, Victoria St., S.W. 1              |
| Speedily, Northfield .. ..        | Austin Motor Co., Ltd., Northfield, Birmingham                                         |
| Sphere, Birmingham .. ..          | Rudge-Whitworth, Ltd., Sparkhill, Birmingham                                           |
| Spherical, Newton Heath .. ..     | Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester                              |
| Sphericity, Phone, London .. ..   | Hilger Adam, Ltd., 75a, Camden Rd., N.W. 1                                             |
| Spring, Redditch .. ..            | Terry Herbert, & Sons, Redditch                                                        |
| Spring, Westbromwich .. ..        | Smith, Bros., & Hill, Ltd., Albert Spring Works, West Bromwich                         |
| Spruceness, Phone, London .. ..   | Crane-Bennett, Ltd., 45-51, Leman St., E. 1                                            |
| Spumante, Tottiane, London .. ..  | Sparklets & General Mfg. Co., Ltd., Angel Rd., Edmonton, N. 18                         |
| Stampings, Ayr .. ..              | Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr,                         |
| Stampings, Middlesbro' .. ..      | Heavy Stampings, Ltd., Middlesbrough [Scotland]                                        |

| TELEGRAPHIC ADDRESS.                 | NAME AND ADDRESS OF ADVERTISER.                                            |
|--------------------------------------|----------------------------------------------------------------------------|
| Stapely, New York .. ..              | Wenham, Bates & Goode (Inc.), 17, Battery Place, New York City, U.S.A.     |
| Stark, Manchester .. ..              | United Brass Founders & Engineers, Ltd., Cornbrook, Manchester             |
| Steadfast, Sheffield .. ..           | Stead J., & Co., Ltd., Manor Works, Sheffield                              |
| Steam, Bradford .. ..                | Holdsworth & Sons, Ltd., Leeds Rd., Bradford                               |
| Steamplow, London .. ..              | Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.                    |
| Steamport, London .. ..              | Hindley E. S., & Sons, 11, Queen Victoria St., E.C.                        |
| Steam Users, Manchester .. ..        | Manchester Steam Users' Association, 9, Mount St., Manchester              |
| Steel, Cadshhead .. ..               | Partington Steel & Iron Co., Ltd., Irlam, Manchester                       |
| Steel, Darlaston .. ..               | Lloyd F. H., & Co., Ltd., James Bridge Steel Works, nr. Wednesbury         |
| Steel, Glasgow .. ..                 | Steel Company of Scotland (Limited), 23, Royal Exchange Square,            |
| Steel, Halesowen .. ..               | Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham [Glasgow              |
| Steelette, Westcent, London .. ..    | Allied Steel Makers & Founders, Ltd., Central House, Kingsway, W.C. 2      |
| Steelmets, Birmingham .. ..          | Bradley & Foster, Ltd., 105, Colmore Row, Birmingham                       |
| Steinie, 53, Victoria St., London .. | Steinie Turret Machine Co., 35, Victoria St., S.W.                         |
| Stermet, Coventry .. ..              | Sterling Metals, Ltd., Coventry                                            |
| Stewart, Glasgow .. ..               | Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow                 |
| St. Nicholas, Carlisle .. ..         | Cowans, Sheldon & Co., Ltd., Carlisle                                      |
| Stoker, Leeds .. ..                  | Triumph Stoker, Ltd., Kirkstall Rd., Leeds                                 |
| Stokes, Deritend, Birmingham ..      | Stokes A., & Co., Green St., Birmingham                                    |
| Stores, Sheffield .. ..              | Tasker's Engineering Co., Ltd., Sheffield                                  |
| Stork, Manchester .. ..              | United Brassfounders & Engineers, Ltd., Cornbrook, Manchester              |
| Stothert, Bath .. ..                 | Stothert & Pitt, Ltd., Bath                                                |
| Stothert, London .. ..               | Stothert & Pitt, Ltd., 53, Victoria St., S.W.                              |
| Strawboard, Manchester .. ..         | Goodman G., Park St., Manchester                                           |
| Strength, Manchester .. ..           | Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester   |
| Stringer, West Bromwich .. ..        | Stringer Bros., West Bromwich, South Staffs.                               |
| Stringer, Wincobank .. ..            | Stringer & Co. (Sheffield), Ltd., Sheffield                                |
| Structural, Birmingham .. ..         | Constructional Engineering Co., Ltd., Charles Henry St., Birmingham        |
| Sturtevant, London .. ..             | Sturtevant Engineering Co., Ltd., 147, Queen Victoria St., E.C.            |
| Sudrons, Stockton-on-Tees .. ..      | Sudron Thos., & Co., Ltd., Stockton-on-Tees                                |
| Summerson, Darlington .. ..          | Summerson Thomas, & Sons, Ltd., Darlington                                 |
| Superunits, Swansea .. ..            | Superheater Units, Ltd., 4, Castle Square, Swansea                         |
| Survey, Sheffield .. ..              | Longbotham Jonathan, & Sons, Ltd., Water Lane, Sheffield                   |
| Sutcliffe Bros., Hyde .. ..          | Sutcliffe Bros., Soho Works, Godley, near Manchester                       |
| Swartwout, Cleveland .. ..           | Ohio Body & Blower Co., Cleveland, Ohio, U.S.A.                            |
| Swiftly, Halifax .. ..               | Swift George, & Sons, Ltd., Range Bank, Halifax                            |
| Switch, Manchester .. ..             | Royce Ltd., Trafford Park, Manchester                                      |
| Swinney, Morpeth .. ..               | Swinney Brothers, Ltd., Wansbeck Iron Works, Morpeth                       |
| Tangyes, Birmingham .. ..            | Tangyes Limited, Cornwall Works, Birmingham                                |
| Tangyes, London .. ..                | Tangyes Limited, 35, Queen Victoria St., E.C.                              |
| Tanks, Birmingham .. ..              | Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham                    |
| Tanks, Shipley .. ..                 | Butterfield W. P., Ltd., Shipley, Yorks, England                           |
| Taps, Salford .. ..                  | Widdowson John H., Britannia St., Ordsall Lane, Salford, Manchester        |
| Tapsandies, London .. ..             | Hunt Hedley S., & Co., 5, Farringdon Rd., E.C.                             |
| Tay, Glasgow .. ..                   | Arrol Sir Wm., & Co., Ltd., Dalmarnock Ironworks, Bridgeton, Glasgow [Tees |
| Teesdale, Stockton-on-Tees .. ..     | Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-              |
| Teleba, Birmingham .. ..             | Brookes & Adams, 250-252, Barr St., Hockley, Birmingham                    |
| Telltale, Walthill, London .. ..     | Newhall Engineering Co., Walthamstow, E. 17                                |
| Temperature, London .. ..            | Green & Boulding, Ltd., 28, New Bridge St., E.C.                           |
| Temples, Shipley .. ..               | Parkinson J., & Son, Shipley, Yorkshire                                    |
| Tenacity, Liverpool .. ..            | Dixon, Geo. N., & Co., 41, Castle St., Liverpool                           |

| TELEGRAPHIC ADDRESS.            | NAME AND ADDRESS OF ADVERTISER.                                                    |
|---------------------------------|------------------------------------------------------------------------------------|
| Tested, Manchester ..           | Herbert Edward G., Ltd., Chapel St., Levenshulme, Manchester                       |
| Tetramic, Stockton-on-Tees ..   | Power Gas Corporation, Ltd., Stockton-on-Tees                                      |
| Theorem, Patricroft ..          | Gardner L., & Sons, Ltd., Barton Hall Engineering Works, Patricroft, Manchester    |
| Thermotank, Glasgow ..          | Thermotank Co., 55, West Regent St., Glasgow                                       |
| Thompson Bros., Bilston ..      | Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston               |
| Thermotvin, Vic., London ..     | Ironite Co., Ltd., 11, Old Queen St., Westminster, S.W. 1                          |
| Thornycroft, Basingstoke ..     | Thornycroft J. I., & Co., Ltd., Basingstoke                                        |
| Thornycroft, Vic., London ..    | Thornycroft J. I., & Co., Ltd., 10, Grosvenor Place, S.W. 1                        |
| Thornycroft, Southampton ..     | Thornycroft J. I., & Co., Woolston, Southampton                                    |
| Tilghmans, Altrincham ..        | Tilghman's Patent Sand Blast Co., Ltd., Broadheath, nr. Manchester                 |
| Timmen, Birmingham ..           | Fisher & Ludlow, Ltd., Albion Works, Rea St., Birmingham                           |
| Titan, Tipton ..                | Tranter W. J., Ltd., Tipton, Staffordshire                                         |
| Tomey, Aston, Birmingham ..     | Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham                   |
| Toolcraft, London ..            | Universal Machinery Corporation, Ltd., 326, Old St., E.C. 2                        |
| Tools, Bristol ..               | Gardner T. J., Century Tool Works, Bristol                                         |
| Tools, Leeds ..                 | Musgrave Bros., Crown Point Foundry, Leeds                                         |
| Tools, Leicester ..             | Lunt's Ltd., Halford St., Leicester                                                |
| Tostones, Deptmark, London ..   | Stone J. & Co., Ltd., Deptford, S.E.                                               |
| Toughness, Phone, London ..     | British Rawhide Belting Co., Ltd., Hythe Rd., Willesden, N.W. 10                   |
| Transit, Glasgow ..             | Union Transit Co., 381, Argyle St., Glasgow                                        |
| Trewent, London ..              | Trewent F. J., & Proctor, Ltd., 43, Billiter Buildings, Billiter St.,              |
| Triwrench, Roxbury ..           | Triment Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. [E.]                    |
| Tubes, Chesterfield ..          | Chesterfield Tube Co., Ltd., Chesterfield                                          |
| Tubes, Leeds ..                 | Yorkshire Copper Works, Ltd., Leeds                                                |
| Tubes, Wednesbury ..            | Spencer John, Ltd., Wednesbury                                                     |
| Tubularity, London ..           | Sugden T., Ltd., 180, Fleet St., E.C.                                              |
| Tuck Blakemore, Coventry ..     | Tuck & Blakemore, Ltd., Coventry                                                   |
| Tudor, Birmingham ..            | Ward H. W., & Co., Ltd., Dale Rd., Selly Oak, Birmingham                           |
| Tullis, Clydebank ..            | Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow                             |
| Tullis, Glasgow ..              | Tullis John, & Son, Ltd., St. Ann's Leather Works, Glasgow                         |
| Turbo, Newcastle-on-Tyne ..     | Parsons C. A., & Co., Ltd., Heaton Works, Newcastle                                |
| Turners, Rochdale ..            | Turner Bros. Asbestos Co., Ltd., Rochdale                                          |
| Turretorum, Cent., London ..    | Jones & Lamson Machine Co., 9 & 10, Water Lane, Queen Victoria St., E.C. 4         |
| Turtions, Sheffield ..          | Turton T., & Sons, Ltd., Spring Works, Sheffield                                   |
| Tylerex, Cent., London ..       | Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C.                            |
| Typhoon, London ..              | Alldays & Onions, Ltd., 58, Holborn Viaduct, B.C.                                  |
| Uehlingco, New York ..          | Uehling Instrument Co., 2,020, Empire Building, New York, U.S.A.                   |
| Umpteen, Sowest, London ..      | Utting S., 82, Victoria St., S.W. 1                                                |
| Unbeaten, Birmingham ..         | Staffordshire Tube Co., Ltd., Edmund St., Birmingham                               |
| Unbreakable, London ..          | Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.                            |
| Unbreakable, Manchester ..      | Wells A. C., & Co., Carnarvon St., Cheetham, Manchester                            |
| Universe, Birmingham ..         | Forbes Brothers, Doe St., Birmingham                                               |
| Ukside, Newport, Mon. ..        | Ukside Ironworks, Newport, Mon.                                                    |
| Vacuo, Vic., London ..          | Consolidated Brake and Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W. 1 |
| Vacuumiser, Walgreen, London .. | British Vacuum Cleaner Co., Parson's Green Lane, S.W.                              |

| TELEGRAPHIC ADDRESS.              | NAME AND ADDRESS OF ADVERTISER.                                                  |
|-----------------------------------|----------------------------------------------------------------------------------|
| Valer, Birmingham .. ..           | Valer Co., Ltd., Aston Cross, Birmingham                                         |
| Valve, Glasgow .. ..              | Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow                               |
| Valve, Liverpool .. ..            | Metallic Valve Co., Colonial House, Water St., Liverpool                         |
| Vanner, Erith .. ..               | Fraser & Chalmers Engineering Works, Erith, Kent                                 |
| Vaporize, London .. ..            | Caird & Rayner, 777, Commercial Rd., Limehouse, E.                               |
| Varispeed, Vic., London .. ..     | Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W. 1                      |
| Vaunting, Manchester .. ..        | Vaughan Crane Co., Ltd., Openshaw, Manchester                                    |
| Veeplot, Grace, London .. ..      | Beldam Packing & Rubber Co., Ltd., 29, Gracechurch St., E.C. 3                   |
| Veicing, London .. ..             | Thomas & Bishop, 37, Tabernacle St., E.C.                                        |
| Ventifania, Wol., London .. ..    | Fitters' Ventilating & Engineering Co., Ltd., Woolwich, S.E. 18                  |
| Ventilabro, Manchester .. ..      | Sutcliffe Ventilating & Drying Co., Ltd., Cathedral Gates, Manchester.           |
| Venturo, London .. ..             | Jensen & Son, 77, Chancery Lane, W.C.                                            |
| Vertical, Hyde Park, Mass. .. ..  | Becker Milling Machine Co., Hyde Park, Boston, U.S.A.                            |
| Vickers, London .. ..             | Vickers Limited, Vickers House, Broadway, Westminster, S.W.                      |
| Vickers, Sheffield .. ..          | Vickers Limited, River Don Works, Sheffield                                      |
| Vicksnag, Phone, Birmingham .. .. | British Lighting & Ignition Co., Ltd., Blic Works, Cheston Rd. Aston, Birmingham |
| Viking, Birmingham .. ..          | Alexander George H., Coleshill St., Birmingham                                   |
| Vilvalie, London .. ..            | Beardshaw J., & Son, Ltd., 38, Victoria St., S.W.                                |
| Vilvalie, London .. ..            | Walber W. A., & Co., 38, Victoria St., Westminster, S.W.                         |
| Virex, Liverpool .. ..            | Brown W. B., & Co. (Bankhall), Ltd., Globe Works, Bankhall, Liverpool            |
| Virkwires, Westcent, London .. .. | Smith H. W., & Co. (1920), Ltd., Central House, Kingsway, W.C. 2                 |
| Viscosity, Vic., London .. ..     | Brunton & Trier, 36, Victoria St., Westminster, S.W. 1                           |
| Vitandum, Blackburn .. ..         | Tattersall A. A., & Co., Blackburn                                               |
| Voldance, London .. ..            | Hughes & Lancaster, 16, Victoria St., Westminster, S.W.                          |
| Vulcan, Liverpool .. ..           | Henderson & Glass, Liverpool                                                     |
| Vulcan, Paisley .. ..             | Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley     |
| Vulpec, Leeds .. ..               | Leeds Forge Company, Ltd., Leeds                                                 |
| Waddams, Dudley .. ..             | Harper A., Sons & Bean, Ltd., Dudley, Worcestershire, England                    |
| Wagon, Birmingham .. ..           | Midland Railway Carriage and Wagon Co., Ltd., Midland Works, Birmingham          |
| Wagonload, London .. ..           | Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W.                              |
| Wake, Darlington .. ..            | Wake John Fredk., 123, Victoria Rd., Darlington                                  |
| Wall, Newcastle-on-Tyne .. ..     | Wallend Slipway & Engineering Co., Ltd., Wallend                                 |
| Warmth, Liverpool .. ..           | Kermodes Ltd., 35, The Temple, Dale St., Liverpool                               |
| Washers, Wednesbury .. ..         | Hampton & Beebe, Ltd., Wednesbury, South Staffs.                                 |
| Wateride, Ipswich .. ..           | Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich                            |
| Watertanks, Wolverhampton .. ..   | Kennicott Water Softener Co., Ettingshall Works, Wolverhampton                   |
| Watertight, Hebburn .. ..         | Newcastle Shipbuilding Co., Ltd., Hebburn-on-Tyne                                |
| Watertube, Wolverhampton .. ..    | Thomson, John, Water Tube Boilers, Ltd.                                          |
| Waygood, Sedist, London .. ..     | Waygood-Otis, Ltd., Falmouth Rd., S.E.                                           |
| Webb, Combs .. ..                 | Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket                              |
| Wedge, Leeds .. ..                | Kaye Jos., & Sons, Ltd., Lock Works, Leeds                                       |
| Welch, Leeds .. ..                | Denison Samuel, & Son, Ltd., Far Hunslet, Leeds, S.                              |
| Weldless, Birmingham .. ..        | Weldless Steel Tube Co., Ltd., Icknield Port Rd., Birmingham                     |
| Weldless, Coatbridge .. ..        | Weldless Chains, Ltd., Gartsherrie, Coatbridge                                   |
| Wellington, Middlesboro' .. ..    | Shaw W., & Co., Wellington Cast Steel Foundry, Middlesboro'-on-Tees              |
| Wellcoey, London .. ..            | Oil Well Supply Co., Dashwood House, New Broad St., E.C.                         |
| Wericonrad, Haarlem .. ..         | Werf Conrad, N.V., Haarlem, Holland                                              |
| Westcliffe, London .. ..          | Bucyrus Co., 13, Victoria St., Westminster, S.W.                                 |

| TELEGRAPHIC ADDRESS               | NAME AND ADDRESS OF ADVERTISER.                                                        |
|-----------------------------------|----------------------------------------------------------------------------------------|
| Western, Aurora, Illinois ..      | Western Wheelled Scraper Co., Aurora, Illinois, U.S.A.                                 |
| Westinghouse, Phone, London ..    | Westinghouse Brake & Sarby Signal Co., Ltd., 82, York Rd., King's Cross, N.            |
| Westinghouse, Phone, London ..    | McKenzie & Holland, Ltd., 82, York Rd., King's Cross, N. 1                             |
| Westinghouse, Phone, London ..    | McKenzie, Holland and Power Signal Co., Ltd., 82, York Rd., King's Cross, N. 1         |
| Westinghouse, Manchester ..       | British Westinghouse Electric & Manufacturing Co., Ltd., Trafford Park, Manchester     |
| Westminster, Birmingham ..        | Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham.                      |
| Westoleico, Putney, London ..     | Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W. 15.          |
| Westwood, Millicast, London ..    | Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.                               |
| Wheels, Kidderminster ..          | Bradley & Turton, Ltd., Calderwood Foundry, Kidderminster                              |
| White, East Cowes ..              | White J. Samuel, & Co., Ltd., East Cowes, I.O.W.                                       |
| Whitefield, Glasgow ..            | Ross & Duncan, Whitefield Works, Glasgow                                               |
| Whitens, Manchester ..            | White H. B., & Co., John Dalton St., Manchester                                        |
| Whites, Pendleton, Manchester ..  | White's Injectors, Ltd., Pendleton, Manchester                                         |
| Whitoll, Newcastle-on-Tyne ..     | White Patent Oil Burning Oil Co., Ltd., Northumberland St., Newcastle-on-Tyne          |
| Wiggins, Minories, London ..      | Wiggins F., & Sons, 102, 103 & 104, Minories, E.                                       |
| Wiley, Darlaston ..               | Wiley James, & Sons, Ltd., Darlaston                                                   |
| Wilcox, Southwark St., London ..  | Wilcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.                               |
| Willette, Junr., Cradley Heath .. | Willette Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.                  |
| Willrich, New York ..             | Williams J. H., & Co., 91, Richards St., Brooklyn, New York, U.S.A.                    |
| Wills, Bridgewater ..             | Wills W. & F., Ltd., Salmon Parade, Bridgewater                                        |
| Willm, Birmingham ..              | Mills William, Ltd., Grove St., Birmingham                                             |
| Wincott, Sheffield ..             | Wincott G. P., Ltd., 180, Attercliffe Road, Sheffield                                  |
| Windlass, Glasgow ..              | Napier Bros., Ltd., 130, Hydepark St., Glasgow, W.                                     |
| Windlight, London ..              | Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.                   |
| Windlight, Newcastle-on-Tyne ..   | Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger St. West, Newcastle-on-Tyne |
| Winn, Birmingham ..               | Winn Charles, & Co., Granville Place, Birmingham                                       |
| Wiredrawn, Led., London ..        | Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C. 2                                   |
| Woodite, Mitcham ..               | Woodite Company, Mitcham Common, Surrey                                                |
| Wood, Saltney ..                  | Wood Henry & Co., Ltd., Saltney, near Chester                                          |
| Woodworker, Leicester ..          | Wadkin & Co., London Street, Leicester                                                 |
| Wright, Tipton ..                 | Wright's Forge and Engineering Co., Ltd., Tipton, Staffordshire                        |
| Yarrow, Glasgow ..                | Yarrow & Co., Ltd., Glasgow                                                            |
| Yates, Blackburn ..               | Yates & Thom, Ltd., Canal Works, Blackburn                                             |
| Yennil, Birmingham ..             | Finney George, & Co., Berkley St., Birmingham                                          |
| Young, Witney ..                  | Young Daniel, Witney, Oxfordshire                                                      |
| Yusozol, Ave., London ..          | Sozol, Ltd., 20, Copthall Avenue, E.C. 2                                               |
| Zenith, Regent, London ..         | Zenith Carburettor Co., Ltd., 40-42, Newnan St., W. 1                                  |
| Zercamez, Paris ..                | Macrez, A. R., 34, Rue de Londres, Paris (9e)                                          |
| Zero, Derby ..                    | Haslam Foundry and Engineering Co., Ltd., Derby                                        |
| Zero, Derby ..                    | Pontifex & Wood, Ltd., Union Foundry, Derby                                            |
| Zigzag, Parl., London ..          | Armstrong, Sir W. G., Whitworth & Co., Ltd., 8, Great George St., Westminster, S.W. 1  |
| Zoethout, Hague ..                | Zoethout J. Jzn., Zeestraat, 88, The Hague, Holland                                    |



**(FRENCH GLOSSARY). TRADUCTION DES EN-TÊTE**

sous lesquels sont classées dans la présente brochure les annonces publiées dans "ENGINEERING."

| Français.                                 | Anglais.                                       | Français.                                       | Anglais.                           | Français.                                                      | Anglais.                                   |
|-------------------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------|----------------------------------------------------------------|--------------------------------------------|
| Accessoires de locomotives                | Locomotives (Mountings for)                    | Ascenseurs et Montecharges                      | Lifts                              | Bois de construction                                           | Timber                                     |
| Accessoires de machines et chaudières     | Engine- and Boiler Fittings                    | Aspirateurs ..                                  | Exhausters                         | Bois (machines à traîner)                                      | Woodworking Machinery                      |
| Accessoires pour chaudières               | Boiler Mountings                               | Aspirateurs de gaz ..                           | Gas Exhausters                     | Bois (procédés pour le séchage et la conservation du)          | Timber drying and preserving               |
| Accessoires pour arbres de transmission   | Couplings (Shaft)                              | Aspirateurs de poussières                       | Vacuum Dust Plant                  | Boîtes ..                                                      | Boxes                                      |
| Accessoires électriques                   | Accumulators (Electric)                        | Assureurs de chaudières                         | Boiler Fasteners                   | Bouges (en tôle) ..                                            | Buoys (Iron and Steel)                     |
| Acier à outils, spécial et rapide         | Steel (Tool, Special and High-speed)           | Attaches et agrafes pour courroies              | Belt Fasteners                     | Bouilles ..                                                    | Sparkling Plugs (voir Igniters, Electric)  |
| Acides ..                                 | Acid Makers                                    | Automobiles ..                                  | Couplings (Railway) Motor Vehicles | Bouilleurs ..                                                  | Distilling (Water) Apparatus               |
| Aéroplanes et Sea-planes                  | Aeroplane and Sea-planes                       | Bâches, récipients, fûts                        | Tanks and Drums                    | Boulons, rivets, écrous, vis, etc.                             | Bolts, Rivets, Nuts, Screws, etc.          |
| Agents de Brevets                         | Patent Agents                                  | Bagues métalliques pour garnitures de pistons   | Metallic Packing                   | Boussols ..                                                    | Compasses                                  |
| Ajustage mécanique à la façon             | Machining for the Trade                        | Balanciers pour manège                          | Coaming Machinery                  | Bouteilles à gaz ..                                            | Bottles (Gas) voir Gas Cylinders           |
| Alliages ..                               | Alloys (voir Metals, etc.)                     | Bancs à étirer ..                               | Draw Benches                       | Brasseries (installations de)                                  | Brewery Plant                              |
| Aluminium                                 | Aluminum                                       | Bandages en caoutchouc                          | Tyres (Rubber)                     | Brevets—loi                                                    | Patent Law (Manufacturers under)           |
| Aluminium et produits d'aluminium         | Aluminum and Aluminium Goods                   | Bandages de roues ..                            | Tyres (Railway)                    | sur les — (manufacturiers disposés à exploiter les inventions) | Fire Bricks (voir Refractory Materials)    |
| Amiante ..                                | Asbestos Goods, Fittings, etc.                 | Barreaux de grilles ..                          | Fire Bars                          | Briques réfractaires ..                                        | Briquette (Machinery)                      |
| Ancre ..                                  | Anchor                                         | Barres (acier et fer) ..                        | Bars (Steel and Iron)              | Briques (Installations pour la fabrication de)                 | Rockbreaker (Mechanical, under Water)      |
| Antirouille ..                            | Rust Preventive                                | Barres polies                                   | Bright Steel                       | Brise-rocs                                                     | Brass Foundries and Brass Finishers        |
| Appareils à badigeonner et peindre        | Whitewashing and Painting Machines             | Bascules et pesons ..                           | Weighing Machines                  | Bronze et laiton (garnitures en)                               | Bronzes                                    |
| Appareils à cintrer les rails             | Rail-benders                                   | Bassins de radoub, etc.                         | Docks (Graving, etc.)              | Brouettes ..                                                   | Barrows                                    |
| Appareils à fileter ..                    | Screwing Machines                              | Bâtiments démontables                           | Buildings (Portable)               | Broyage et Séchage du charbon (Installations pour)             | Coal Pulverising and Drying Plant          |
| Appareils à fileter et à couper les tubes | Pipe-screwing and Cutting Machinery            | Bâtiments et hangars en fer et acier            | Iron and Steel Buildings           | Broyeurs ..                                                    | Disintegrators (voir aussi Grinding Mills) |
| Appareils à jet de sable                  | Sand Blast Machines                            | Béliers hydrauliques ..                         | Hydraulic Rams                     | Broyeurs — malaxeurs pour peintures, huiles, mortier, etc.     | Mills (Paint, Oil, Mortar, etc.)           |
| Appareils auxiliaires marins              | Marine Auxiliaries                             | Bennes ou pelles automatiques                   | Grabs                              | Brûleurs à gaz ..                                              | Burners (Gas)                              |
| Appareils de hâlage                       | Hauling Plants                                 | Benzine et ses succédanés                       | Petrol and its Substitutes         | Brûleurs à huile ..                                            | Oil fuel Burners                           |
| Appareils de levage                       | Lifting Machinery                              | Béton ordinaire et armé                         | Concrete (Plain and Reinforced)    | Buanderies (machines pour)                                     | Laundry Machinery                          |
| Appareils plongeurs                       | Diving Apparatus                               | Béton, Plaque en, Machines pour la fabrication  | Concrete Blocks for Making         | Burettes à huile ..                                            | Oil-cans                                   |
| Appréhensions pour étoffes                | Cloth-finishing Machinery                      | Bigues ..                                       | Shieries                           |                                                                |                                            |
| Arbitres ..                               | Arbitrators                                    | Blanchiment des étoffes (installations pour le) | Bleaching Machinery                |                                                                |                                            |
| Arbres couvés ..                          | Crankshafts                                    | Blindages ..                                    | Armour plates                      |                                                                |                                            |
| Arbres de transmission et accessoires     | Shaft Fittings (voir Plummer Blocks, Bearings) | Bocards ..                                      | Ore-crushing Machinery             |                                                                |                                            |

| Français.                                             | Anglais.                                              | Français.                            | Anglais.                  | Français.                                                                  | Anglais.                                      |
|-------------------------------------------------------|-------------------------------------------------------|--------------------------------------|---------------------------|----------------------------------------------------------------------------|-----------------------------------------------|
| Cabestans (à vapeur, hydrauliques et électriques)     | Capstans (Steam, Hydraulic and Electric)              | Cuisines (installations de)          | Cooking Plant             | Cuivres en lingots, en barres, et en feuilles                              | Copper Ingots, Bars, and Sheets               |
| Cables pour lumière, télégraphes, et téléphones       | Cables (Electric Light, Telegraph and Telephone)      | Cylindres de laminés                 | Rolls (Chilled and Grain) | Déchets de coton                                                           | Waste (cotton)                                |
| Cables sous-marins (appareils pour la pose de câbles) | Cable Laying Machinery                                | Décapage de tôles (machines pour)    | Stamping Machinery        | Défilées à coke                                                            | Coke Rams                                     |
| Cadres, échelles inclinées                            | Dials                                                 | Désincrustants                       | Disincrustants            | Désincrustants pour chaudières, appareils à désinfecter (installations de) | Disincrustants for Boilers Scaling Appliances |
| Caissons et produits pour emballage                   | Packing Cases and Containers                          | Désinfection (installations pour la) | Drying Apparatus          | Dessication (ventilateurs pour la)                                         | Centrifugal Drying Machines                   |
| Caissons de fondations pour ponts                     | Bridge Foundation Structures (voir aussi Engineering) | Dessins, calques, etc.               | Drawings, Tracings, etc.  | Destructeurs                                                               | Destructors                                   |
| Calorifères                                           | Heating Apparatus                                     | Destructeurs (appareils pour)        | Distilleries              | Dragues                                                                    | Predging Machines                             |
| Canons et éléments de canons                          | Guns and Gun Forgings                                 | Draques à succion                    | Dredgers (Suction)        | Dynamomètres                                                               | Dynamometers                                  |
| Canots automobiles                                    | Motor Boats                                           | Draques à succion                    | Dredgers (Suction)        | Ebonite                                                                    | Ebonite                                       |
| Canots et yachts                                      | Launches and Yachts                                   | Draques à succion                    | Dredgers (Suction)        | Echelles                                                                   | Ladders and Steps                             |
| Canotiers (matériel pour)                             | Canoeing Equipment                                    | Draques à succion                    | Dredgers (Suction)        | Eclairage de travaux                                                       | Lighting Apparatus                            |
| Caoutchouc (articles en)                              | India-rubber Goods                                    | Draques à succion                    | Dredgers (Suction)        | Eclairage électrique (installations de)                                    | Electric Lighting Plant                       |
| Caoutchouc (machines à traiter le)                    | Rubber Machinery                                      | Draques à succion                    | Dredgers (Suction)        | Economiseurs                                                               | Economisers                                   |
| Carburateurs et vapeurs                               | Carburetors and vaporisers                            | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Cartoucheries (machines pour)                         | Cartridge-making Machinery                            | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Casse-pierres                                         | Stone-breakers (voir aussi Disintegrators)            | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Casques pare-feu                                      | Smoke Helmets                                         | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Cementation (produits pour la)                        | Case-hardening Materials                              | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chânes (câbles)                                       | Cables (chain)                                        | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chânes de transmission                                | Chains (Gearing)                                      | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières à vapeur                                   | Boilers (Steam)                                       | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières à vapeur (fer et acier)                    | Boilers (Iron and Steel)                              | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Changements de marche (pour bateaux automobiles)      | Reversing Gears (Motor Boat)                          | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Changements et croisements                            | Switches and Crossings                                | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières parvies                                    | Shipbuilders                                          | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Charbons (Electricité)                                | Carbons (Electric)                                    | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Charbons, goudrons                                    | Slings (Steam)                                        | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières à vapeur                                   | Boilers (Steam)                                       | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières multiboules                                | Boilers (Water-tube)                                  | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières de cuivre                                  | Coppermiths                                           | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières mécaniques                                 | Stokers (Mechanical)                                  | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières (appareils pour le)                        | Chimneys                                              | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières                                            | Chimneys                                              | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |
| Chaudières de fer à ciel ouvert                       | Railway (Rack) maillare                               | Draques à succion                    | Dredgers (Suction)        | Ecoulements indésirables                                                   | Lock-outs and Nut                             |

| Chemins de fer à voie étroite                    | Railways (Light and Portable)                                            | Emplacements fabriques                                         | pour Sites (Industrial)                                         | Garnitures de presse-étoupes                           | Packing (Engine and Hydraulic)                                  | Jointing Materials, Leathers (Hydraulic, etc.) et Metallic |
|--------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------|
| Chemins de fer (matériel fixe de)                | Permanent Way                                                            | Engrues à vis sans fin                                         | Inks                                                            | Garnitures de trous d'homme                            | Boiler Manholes                                                 |                                                            |
| Ciment de latier, Portland, etc.)                | Cement (Iron, Portland, etc.)                                            | Engrues en cuir                                                | Non-conducting Compositions                                     | Garnitures et accessoires, en métal, etc.              | Furnitures and Fittings (Metals, etc.)                          |                                                            |
| Ciment (installations de) pour la fabrication du | Cement-making Plant                                                      | Engrenages (machines à engrenages les roues d)                 | Worm Gearing                                                    | Gaz Comprimé (Bouteilles et accessoires pour)          | Compressed Gas (Bottles and Fittings for)                       |                                                            |
| Circulateurs d'eau pour chaudières               | Hydrokineters and temperature equalisers (voir aussi Boiler Circulators) | Entrepreneurs Epuiseurs d'eau d'alimentation                   | Contractors Water-purifying Apparatus (voir Feed Water Filters) | Gazogènes                                              | Gasworks (Plants for) (voir aussi Gases, Plant for Producing)   |                                                            |
| Classeurs pour ingénieurs                        | Cabinets (Engineers')                                                    | Estampages (Laiton, Bronze, Cuivre, Aluminium, etc.)           | Stampings (Brass, Copper, Aluminum, etc.)                       | Gaz                                                    | Gas-producers                                                   |                                                            |
| Cloûres métalliques                              | Fencing                                                                  | Essieux coulés                                                 | Axles                                                           | Glace (machines à faire la)                            | Ice-making Machines                                             |                                                            |
| Coffres-forts                                    | Safes                                                                    | Essieux                                                        | Cranks Axles                                                    | Gouvernail (appareils pour la manœuvre du)             | Steering Gear                                                   |                                                            |
| Collecteurs de pous-sières                       | Dust Collectors                                                          | Essieux                                                        | Hydro-extractors                                                | Graisers                                               | Lubricators                                                     |                                                            |
| Combinateurs électriques                         | Controlers (Electrical)                                                  | Essieux                                                        | Forgings (Drop)                                                 | Graphe (pour lubrifiant, etc.)                         | Graphite (Lubricating, etc.)                                    |                                                            |
| Combustibles liquides                            | Liquid Fuel, Oil Fuel                                                    | Essieux                                                        | Vices                                                           | Grues, ponts roulants, treuils, etc.                   | Cranes, Travellers, Winches, etc.                               |                                                            |
| Commissaires priseurs                            | Auctioneers (Engineering)                                                | Etau pages                                                     | Vaporateurs (voir aussi Distilling (Water))                     | Graveurs en creux                                      | Die Sinks                                                       |                                                            |
| Compagnies d'assurance                           | Insurance Companies                                                      | Etau pages                                                     | Appareils                                                       | Gyroscopes                                             | Gyroscopes                                                      |                                                            |
| Compresseurs d'air                               | Air Compressors                                                          | Etau pages                                                     | pour Bouteilles                                                 | Hélices                                                | Propellers (Air) (voir aussi Fans and Blowers, and Ventilators) |                                                            |
| Compresseurs de gaz à haute pression             | Gas Compressors (High pressure)                                          | Extincteurs d'incendie                                         | Fire-Extinguishing Apparatus                                    | Hélices aéroplanes                                     | Propellers (Air)                                                |                                                            |
| Compteurs                                        | Meters                                                                   | Fabricants constructeurs                                       | Manufacturers (voir aussi Patent Law)                           | Hélices et ailes d'hélices                             | Screw Propellers and Propeller Blades                           |                                                            |
| Compteurs de tours et de courses                 | Speed Indicators and Counters (for revolutions)                          | Ferrures pour voitures                                         | Carriage (Railway) Fittings                                     | Horloges de contrôle                                   | Time-checking Machines                                          |                                                            |
| Condenseurs                                      | Condensers (Steam-engines)                                               | Fers à plancher (fer et acier)                                 | Joists Rolled (Iron and Steel)                                  | Houillères                                             | Colliery Proprietors                                            |                                                            |
| Condenseurs à ruissellement                      | Condensers (Evaporative)                                                 | Filères et machines à filer                                    | Screwing Machines                                               | Houillères (installations pour)                        | Colliery Plant                                                  |                                                            |
| Constructions Métalliques                        | Structural Engineering                                                   | Fil de fer (machines à tisser, dresser, couper et enrouler le) | Weaving, Straightening, Cutting and Colling Machines            | Huilleries (installations d'huiles (recupérateurs d')) | Oil Mill Machinery                                              |                                                            |
| Constructeurs de navires                         | Shipbuilders                                                             | Filature et tissage (Machines pour)                            | Textile Machinery                                               | Imperméabilisation (Produits pour)                     | Water-proofing Com-pounds                                       |                                                            |
| Constructeurs en fer et acier                    | Buildings, Iron and Steel (voir Structural Engineering)                  | Fils et câbles électriques et télégraphiques                   | Electric Cables (voir aussi Telegraph Wire and Cables)          | Indicateurs de torsion                                 | Torsion Meters                                                  |                                                            |
| Convoyeurs                                       | Conveyors and Elevators                                                  | Filtes et refroidisseurs à huile                               | Filtering Apparatus                                             | Indicateurs du vide, et de pression hydraulique        | Gauges (Pressure, Vacuum and Hydraulic)                         |                                                            |
| Cordes de transmission                           | Ropes (Driving)                                                          | Filtres d'air                                                  | Air Filters and Coolers                                         | Indicateurs (machines à vapeur et moteurs à gaz)       | Gas-engine                                                      |                                                            |
| Courroies de transmission                        | Belt (Leather, Canvas, etc.)                                             | Filtres d'eau d'alimentation                                   | Feed-Water Filters                                              | Ingénieurs conseillers, inspecteurs                    | Engineers (Consulting and Inspecting)                           |                                                            |
| Coussinets (à rouleaux et à billes)              | Bearings (Ball and Roller)                                               |                                                                |                                                                 |                                                        |                                                                 |                                                            |
| Crampons et clous                                | Spikes and Nails                                                         |                                                                |                                                                 |                                                        |                                                                 |                                                            |
| Crayons                                          | Pencils (Drawing Instruments)                                            |                                                                |                                                                 |                                                        |                                                                 |                                                            |
| Creusets                                         | Crucibles                                                                |                                                                |                                                                 |                                                        |                                                                 |                                                            |
| Cribles                                          | Screens                                                                  |                                                                |                                                                 |                                                        |                                                                 |                                                            |
| Cublots                                          | Cupolas                                                                  |                                                                |                                                                 |                                                        |                                                                 |                                                            |

| Français.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Anglais.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Français.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Anglais.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Français.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Anglais.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Ingénieurs mécaniciens<br>conseils<br>Inspecteurs de chau-<br>dières<br>Inspecteurs d'appa-<br>reils<br>Inspecteurs experts<br>Installation d'usines<br>Installations sanitaires<br>Instruments pour des-<br>sinateurs<br>Instruments scienti-<br>fiques<br>Isolants<br>Isolant et garniture<br>"Woodite" for Steam,<br>Electrical and Hy-<br>draulic Packings                                                                                                                                                                                                                                                                                                          | Mechanical Engineers<br>(Consulting)<br>Inspectors<br>Boiler Inspection So-<br>cieties<br>Surveyors etc.<br>Organisation (Works)<br>Sanitary Appliances<br>Drawing Instruments<br>Mathematical Instru-<br>ment Makers<br>Insulating Materials<br>"Woodite," for Steam,<br>Electrical and Hy-<br>draulic Packings                                                                                                                                                                                                                                                                                                                                         | Modèles (Fabricants de)<br>Modèles<br>Monnayage (appareils<br>pour le)<br>Montres<br>Moteurs à essence<br>Moteurs à gaz<br>Moteurs à pétrole<br>Moteurs électriques<br>Moteurs d'acier<br>Moulares en aluminium<br>Moulares en fonte<br>Moulares mécaniques<br>Moulares (Die)<br>Munitions                                                                                                                                                                                                                                                                                                                                                                               | Model Makers<br>Pattern Makers<br>Mint Machinery<br>Watches<br>Engines (Petrol)<br>Engines (Gas)<br>Engines (Oil)<br>Electric Motors<br>Castings (Steel)<br>Castings (Aluminium)<br>Castings (Iron)<br>Castings (Die)<br>Castings (Non-Ferrous)<br>Ammunition                                                                                                                                                                                                                                                                                                                                                                                          | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings |
| Joints de tuyaux<br>Laboratoires<br>essais chimiques et<br>physiques<br>Laine de bois (Machines<br>à fabriquer la)<br>Laiton et bronze (fon-<br>deurs et ajusteurs<br>de)<br>Lampes<br>Lampes incandescentes<br>Lever de plans (instru-<br>ments pour le)<br>Lignes<br>Locomotives<br>Locomobiles<br>Lubrifiant pour cour-<br>roies<br>Lubrifiants et huiles<br>Lubrifiants pour ma-<br>chines-outils                                                                                                                                                                                                                                                                   | Jointing Materials<br>Laboratories and Test-<br>ing Plants<br>Woodwool Machinery<br>Brass Founders and<br>Brass Finishers<br>Lamps<br>Incandescent Lamps<br>Survey-<br>ing<br>Files<br>Engines (Portable)<br>Engines (Locomotive)<br>Belt Treatment<br>roies<br>Lubricants and Oils<br>Lubricants (Cutting)<br>chines-outils                                                                                                                                                                                                                                                                                                                             | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings |
| Machines à air chaud<br>Machines à écrire<br>Machines à fabriquer les<br>boulons et écrous<br>Machines à fabriquer les<br>briques et tuiles<br>Machines à fabriquer les<br>cartouches<br>Machines à fouiller<br>Machines agricoles<br>Machines à vapeur                                                                                                                                                                                                                                                                                                                                                                                                                 | Engines (Air)<br>Typewriters<br>Bolt and Nut-making<br>Machinery<br>Brick and Tile-Making<br>Machinery<br>Cartridge-making Ma-<br>chinery<br>Excavators<br>Agricultural Machinery<br>Steam-cultivating Ma-<br>chines                                                                                                                                                                                                                                                                                                                                                                                                                                     | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings |
| Rails (acier et fer)<br>Réchauffeurs d'eau d'al-<br>limentation<br>Réducteurs de vitesse<br>Réfrigérants à chimie<br>et autres<br>Régulateurs d'alimenta-<br>tion<br>Régulateurs (pour ma-<br>chines)<br>Remorqueurs<br>Resorts<br>Resorts (Machines à<br>fabriquer les)<br>Revêtements calorifuges<br>Ribbons<br>mitraille,<br>chutes<br>Rivets (fours à chauffer<br>Rivets Heaters<br>Rivets)<br>Rivets<br>Riz (installations pour<br>traiter le)<br>Roues à auge<br>Roues dentées<br>Roues de chemins de fer<br>Roues d'engrenage en<br>cuir<br>Roues (machines à tailler<br>les rones)<br>Rouleaux à vapeur pour<br>roues<br>Roulements (à rouleaux<br>et à billes) | Anglais.<br>Rails (Steel and Iron)<br>Feed-water Heaters<br>Gearing (speed-reducing)<br>Water-cooling Towers<br>(for Waste Cooling<br>Plant)<br>Feed-water Regulators<br>Governors (Engine)<br>Tugboats<br>Springs<br>Machines à<br>fabriquer les<br>Nonconducting Con-<br>positives<br>Ribbons<br>mitraille,<br>chutes<br>Rivets (fours à chauffer<br>Rivets Heaters<br>Rivets)<br>Rivets<br>Riz (installations pour<br>traiter le)<br>Roues à auge<br>Roues dentées<br>Roues de chemins de fer<br>Roues d'engrenage en<br>cuir<br>Roues (machines à tailler<br>les rones)<br>Rouleaux à vapeur pour<br>roues<br>Roulements (à rouleaux<br>et à billes) | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings |
| Sable de moulage<br>Scies (fabricants de)<br>Séparateurs (pour laite-<br>ries)<br>Séparateurs (pour ma-<br>chines à vapeur)<br>Sièges de soupapes<br>(Fraisuses à)<br>Signaux de chemins de<br>fer<br>Sirènes et sifflets<br>Solenoides de freinage<br>Sonderies et signaux<br>électriques<br>Soudures<br>Soupapes (à gaz, vapeur,<br>eau, etc.)                                                                                                                                                                                                                                                                                                                        | Anglais.<br>Sands (Moulding)<br>Saws (makers of)<br>Cream Separators<br>Steam Separators<br>Valve Reseating Ma-<br>chines<br>Railway Signals<br>Sirens and Whistles<br>Solenoids (Brake)<br>Electric Bells and Sig-<br>nals<br>Solders<br>Steam<br>Water, etc.)                                                                                                                                                                                                                                                                                                                                                                                          | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings | Navigation et trans-<br>ports maritimes<br>Or (dragues pour l')<br>Or (machines pour l'ex-<br>traction de l')<br>Outils<br>Outils d'occasion<br>Outils mus électrique-<br>ment<br>Outils pneumatiques<br>Paliers de butée<br>grapaudines<br>Paliers supports<br>Paratonnerres<br>Peintures, vernis, etc.<br>Perceuses<br>Perforatrices<br>Petits chevaux alimen-<br>taires<br>Pétrole (dépôts de)<br>Photographie (appareils<br>pour la)<br>Pics, pelles, et baches<br>Pièces de forge (bronze,<br>laiton, cuivre, etc.)<br>Pièces de forge, fer et<br>acier<br>Pièces de forge, métaux<br>autres que le fer<br>Pièces moulées et de<br>forge en acier au man-<br>ganèse | Shipping and Trans-<br>port Agents<br>Gold Dredgers<br>Crushing and Amal-<br>gamating Machinery<br>Tools (Hand and Small,<br>voir aussi Machine<br>Tools)<br>Second-hand Tools<br>Electric Tools<br>Pneumatic Tools<br>Bearings (Thrust and<br>Footstep)<br>Plummer Blocks<br>Lightning Conductors<br>Paints, Varnishes, etc.<br>Drilling Machines (voir<br>Machine Tools)<br>Rock Drills<br>Pumps (Donkey)<br>Petrol Storage<br>Photography and Ma-<br>terials, etc.<br>Picks, Shovels, & Spades<br>Forgings (Brass, Bronze,<br>Copper, etc.)<br>Forgings (Iron and<br>Steel)<br>Forgings (non-ferrous)<br>Manganese Steel Cast-<br>ings and Forgings |

|                                              |                                            |                                                               |                                          |                                                        |                                                           |
|----------------------------------------------|--------------------------------------------|---------------------------------------------------------------|------------------------------------------|--------------------------------------------------------|-----------------------------------------------------------|
| Machines à meuler ..                         | Emery-grinding Machinery                   | Pieux (appareils à foncer les)                                | Pile Drivers                             | Souapes de réduction                                   | Valves (Reducing)                                         |
| Machines à tronçonner ..                     | Cutting-off Machines                       | Pieux, palplanches et sabots de pieux ..                      | Piles, Sheet Steel Piling and Pile Shoes | Souapes de retenue ..                                  | Feed Check Valves                                         |
| Machines de marine ..                        | Engines (Marine)                           | Pistons et bagues métalliques ..                              | Pistons and Piston-rings                 | Souapes de sûreté ..                                   | Safety Valves                                             |
| Machines d'extraction ..                     | Engines (Winding)                          | Plaques adresses ..                                           | Name Plates                              | Substances abrasives ..                                | Abrasives                                                 |
| Machines et instruments ..                   | Testing Machines and Instruments           | Plaques tournantes ..                                         | Turntables                               | Sucre (installations pour la fabrication) ..           | Sugar Machinery                                           |
| Machines à scier les métaux ..               | Engines (Stationary)                       | Poches de fondrie ..                                          | Ladles                                   | Surchauffeurs ..                                       | Superheaters                                              |
| Machines frigorifiques ..                    | Refrigerating Machinery                    | Poinçonneuses et cisail-les ..                                | Punching and Shearing Machines           |                                                        |                                                           |
| Machines hydrauliques ..                     | Hydraulic Machinery                        | Pointes de Paris, etc. (Machines à fabriquer les) ..          | Nail (Wire, etc.) Making Machinery       | Tableaux de distribu-tion et accessoires ..            | Switchboards and acces-sories                             |
| Machines à mouler ..                         | Moulding Machines                          | Pompes ..                                                     | Engines (Pumping)                        | Tampons ..                                             | Buffers                                                   |
| Machines outils ..                           | Machine Tools                              | Pompes à air ..                                               | Air Pumps                                | Tanneurs et corroyeurs ..                              | Fusible Plugs                                             |
|                                              |                                            | Pompes à vide ..                                              | Pumps (Vacuum)                           | Télégraphes (instru-ments de) ..                       | Telegraph Instruments                                     |
| Machines à souder et cisailier ..            | Welding and Cutting Machines               | Pompes centrifuges ..                                         | Pumps (Centrifugal)                      | Téléphones ..                                          | Telephones                                                |
| Machines soufflantes ..                      | Engines (Blowing)                          | Pompes d'alimentation ..                                      | Pumps (Donkey)                           | Thé (appareils pour pré-parer les feuilles de)         | Tea-dressing Machinery                                    |
| Magnétos ..                                  | Magnets                                    | Pompes d'installations ..                                     | Pumps and Pumping Machinery              | Thermomètres ..                                        | Thermometers (voir instruments)                           |
| Malaxeurs ..                                 | Concrete Mixers                            | Pompes pour les colonies ..                                   | Pumps (Colonial)                         | Tirage forcé et par in-duction (installations pour) .. | Forced and Induced Draught Apparatus                      |
| Malaxeurs à béton ..                         | Handles (Tool)                             | Pompes turbines ..                                            | Pumps (Turbine)                          | Toitures matériel pour                                 | Roofing material                                          |
| Manchons ..                                  | Chucks                                     | Ponts ..                                                      | Bridges (voir Structural Engineering)    | Toitures métalliques ..                                | Zinc, voir Structural Engineering                         |
| Mandrinets ..                                | Gauges (Pressure)                          | Portes étanches ..                                            | Doors (Watertight) and Poles, Posts      | Tôle mince (Pièces sou-dées en)                        | Sheet Metal Work (Welded)                                 |
| Marchands de fer ..                          | Iron Merchants                             | Poteaux, Supports ..                                          | Pottery and Encaustic Standards          | Tôles découpées (et ma-chines pour la fabrica-tion de) | Sheet Metal Work and Machinery                            |
| Marbreaux mécaniques ..                      | Hammers (Drop)                             | Poteries (installation de) ..                                 | Pottery and Encaustic Tile Machinery     | Tôles découpées, fer et acier                          | Stampings (Iron and Steel)                                |
| Marbreaux de grosse forge ..                 | Hammers (Power)                            | Poudre et coton-poudre (installations pour la fabrication de) | Gunpowder and Gun-cotton Machinery       | Tôles embouties et à plates (Dished and Flanged)       | Plates (Iron and Steel)                                   |
| Marbreaux-pilons ..                          | Steam Hammers                              | Poulies, moules ..                                            | Pulley-blocks                            | Tôles perforées ..                                     | Perforated Metals                                         |
| Matelas et enduits calo-rifuges ..           | Non-conducting Com-positions               | Poulies de transmission, en bois                              | Pulleys (Wood)                           | Tourpilleurs ..                                        | Torpedo Boats                                             |
| Matériel de chemins de fer et entreprises .. | Railway and Contraction's Plant            | Poulies de transmission, fer et acier                         | Pulleys (Wrought Iron and Steel)         | Tournevis ..                                           | Turnstiles                                                |
| Matériel roulant ..                          | Railway Rolling Stock                      | Poutres et poutrelles ..                                      | Girders                                  | Tracteurs ..                                           | Engines (Traction) voir aussi Tractors (Oil, Steam, etc.) |
| Matériel roulant ..                          | Engine—Loco-motive)                        | Presses à copier ..                                           | Copying Presses                          | Tramways ..                                            | Tramways                                                  |
| Mécanisme de distribu-tion à soupapes ..     | Expanded Metal                             | Presses à coton ..                                            | Cotton Presses                           | Transmetteurs d'ordres à bord ..                       | Telegraphs (Engine and Steering)                          |
| Métal déployé ..                             | Metals (Alloy Steels)                      | Presses à forger ..                                           | Forging Presses                          | Transmissions et acces-soires ..                       | Shafting and Shaft Fit-tings                              |
| Métaux antiriftion ..                        | Metals (Antiriftion)                       | Presses hydrauliques ..                                       | Hydraulic Presses                        | Transmissions par en-grammes, etc. ..                  | Transmissions, etc.                                       |
| Métaux antiriftion ..                        | Looms                                      | Presses mécaniques ..                                         | Presses (Power)                          | Transporteurs ..                                       | Transporters                                              |
| Métaux à tisser ..                           | Groundstones                               | Prises d'eau ..                                               | Hydrants                                 | Transporteurs aériens ..                               | Rope Tramways                                             |
| Meules à aiguiser ..                         | Grinding Machinery                         | Produits chimiques (ap-pareils pour la fabri-cation de)       | Chemical Works (Plant for)               | Transporteurs de char-bon ..                           | Coal-handling plant                                       |
| Meules (machines à meuler) ..                | Grinding Machinery                         | Produits réfractaires ..                                      | Refractory Materials                     |                                                        |                                                           |
| Meubles d'èmeri ..                           | Emery Wheels                               | Projecteurs ..                                                | Search-lights                            |                                                        |                                                           |
| Meubles et fournitures de bureaux ..         | Office Fittings, Furni-ture and Appliances | Puits artésiens ..                                            | Tube Wells                               |                                                        |                                                           |
| Meuneries (installations pour) ..            | Mill Machinery (Flour, Corn, and Rice)     | Pulvérisation (broyeurs pour la) ..                           | Pulverisers                              |                                                        |                                                           |
| Mica ..                                      | Mica                                       | Purges automatiques ..                                        | Steam Traps                              |                                                        |                                                           |
| Micromètres ..                               | Micrometers                                | Pyromètres et thermo-mètres ..                                | Pyrometers and Ther-mometers             |                                                        |                                                           |
| Mises (machines pour) ..                     | Mining Machinery                           |                                                               |                                          |                                                        |                                                           |
| Mises en marche et ac-cessoires ..           | Motor Starters and accessories             |                                                               |                                          |                                                        |                                                           |

| Français.                                    | Anglais.                                                         | Français.                                        | Anglais.                                       | Français.                        | Anglais.                                     |
|----------------------------------------------|------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------|----------------------------------|----------------------------------------------|
| Traverses de chemins de fer                  | Sleepers (Railway)                                               | Tuiles vernies (machines pour la fabrication de) | Pottery and Encaustic Tile Machinery           | Vidange (Pompes de)              | Cesspool Exhausters                          |
| Treils .. ..                                 | Windlasses, Winches (voir Cranes)                                | Turbines .. ..                                   | Turbines                                       | Vis, etc. .. ..                  | Screws, etc.                                 |
| Trièbres magnétiques ..                      | Separators, Magnets, etc.                                        | Turbines à vapeur et accessoires                 | Steam Turbines and Fittings                    | Vitrerie .. ..                   | Glazing                                      |
| Trous d'homme (fermeture de)                 | Manhole Doors                                                    | Tuyaux de vapeur .. ..                           | Steam Pipes                                    | Voies suspendues ..              | Runways                                      |
| Tubes de niveau d'eau ..                     | Gauge Glasses                                                    | Tuyaux en fonte (fabricants de)                  | Pipe Founders                                  | Voies (appareils à soulever les) | Rail-lifters                                 |
| Tubes et tuyaux (fer et acier)               | Pipes (Wrought Iron and Steel) voir aussi Tubes (Iron and Steel) | Tuyaux soudés .. ..                              | Pipes (Large and Lap-welded)                   | Voitures de chemins de fer       | Carriage Builders                            |
| Tubes et tuyaux en serpents                  | Coils (Pipe and Tube)                                            | Tuyaux toile, cuir ou caoutchouc                 | Hose Pipes                                     | Vulcanite et fibre vulcanisée    | Vulcanite and Vulcanised Fibre               |
| Tubes (laiton et cuivre)                     | Tubes (Brass and Copper)                                         | Vannes .. ..                                     | Sluices                                        | Wagons automobiles               | Wagons, Self-Propelled (voir Motor Vehicles) |
| Tubes (métaux autres que le fer)             | Tubes (Non-Ferrous)                                              | Ventilateurs .. ..                               | Fans and Blowers (Ventilators and Air Pellers) | Wagons basculant                 | Wagon (Tip)                                  |
| Tubes métalliques (machines à fabriquer les) | Tube-making Machinery                                            | Vêtements de travail ..                          | Boiler Suits (voir Overalls, &c.)              | Wagons (constructeurs de)        | Wagon (Railway) Builders                     |
|                                              |                                                                  |                                                  |                                                | Yachts .. ..                     | Yachts                                       |





| Español.                                          | Inglés.                        | Español.                                  | Inglés.                                                      | Español.                                  | Inglés.                                                         |
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| Calderas (Compañías aseguradoras de)              | Boiler Insurance Companies     | Desintegradores ..                        | Disintegrators                                               | Funderías (Instalaciones para)            | Foundry Plant                                                   |
| Calderas (Compañías para la inspección de)        | Boiler Inspection Societies    | Desperdicios de algodón                   | Waste (cotton)                                               | Funderías de tubos y tubería              | Pipe Founders (ver también Tubes)                               |
| Calderas de vapor ..                              | Boilers (Steam)                | Destilar (Apáratos de)                    | Distillery Plant                                             | Fundiciones de aluminio                   | Castings (Aluminium)                                            |
| Calderas multitubulares                           | Boilers (Water-tube)           | Dibujos, calcos, etc. ..                  | Drawings, Tracings, etc. (ver Electric Lighting Plants)      | Fundiciones de hierro                     | Castings (Iron)                                                 |
| Calderas (Tipas de agujas para limpiar)           | Boiler Manholes                | Dinamos ..                                | Dynamometers                                                 | Fundiciones en mates                      | Die Castings                                                    |
| Caldereros ..                                     | Coppersmiths                   | Diques de carenar, etc.                   | Docks (graving, etc.)                                        | Fundiciones, metal otro que hierro        | Castings (Non-Ferrous)                                          |
| Calderos de colada ..                             | Ladles                         | Dragas de succión ..                      | Dredgers (Suction)                                           |                                           |                                                                 |
| Cambios de vía y cruces                           | Switches and Crossings         | Dragas; máquinas de cavar                 | Dredging Machines                                            |                                           |                                                                 |
| Campanas y aparatos de buquear                    | Diving Apparatus               | Dragas de arena aurífera                  | Gold Dredgers                                                |                                           |                                                                 |
| Cañones y piezas fraguadas para los mismos        | Guns and Gun Forgings          | Durmientes; vigas ..                      | Girders                                                      |                                           |                                                                 |
| Cantinas (Utensilios para)                        | Canteen Equipment              | Ebonito, ..                               | Ebonite                                                      | Galvanización (Instalaciones para la)     | Galvanizing (Plant for)                                         |
| Carburización (Materia para la)                   | Case-hardening Materials       | Economizadores ..                         | Economisers                                                  | Galvanización (Talleres de)               | Galvanisers                                                     |
| Carburizadores y gasificadores                    | Carburettors and Gasifiers     | Educios y tejadillos de hierro y acero    | Iron and Steel Buildings (ver Structural Engineering)        | Gas (Instalaciones para su fabricación)   | Gases (Plant for producing)                                     |
| Carretes ..                                       | Carrows                        | Editorios ..                              | Editors (ver Publishing)                                     | Gas (Oxígeno, etc.)                       | Gas (Oxygen, etc.)                                              |
| Carretones de ferrocarril                         | Barrows (Railway)              | Ejes acodados ..                          | Crank Axles                                                  | Gas comprimido                            | Compressed Gases                                                |
| Carruajes de ferrocarril                          | Carriages (Railway)            | Ejes árboles ..                           | Tree Axles                                                   | (Bottles and Fittings for)                |                                                                 |
| Carruajes de ferrocarril (Accesorios de)          | Carriage (Railway) Fittings    | Electro-ímanes de suspensión              | Magnets (Lifting)                                            | Giroscopios ..                            | Gyroscopes                                                      |
| Cartuchos (Máquinas de hacer)                     | Cartridge-Making Machinery     | Elevadores y ascensores                   | Lifts                                                        | Grabadores en hueco ..                    | Die Sinks                                                       |
| Casas desmontables ..                             | Buildings (Portable)           | Embarcaciones ..                          | Boats (ver Barges, etc.)                                     | Gráfico, de lubricar, etc.                | Graphite (Lubricating, etc.)                                    |
| Cascos parabolados ..                             | Smoke Helmets                  | Embolos y anillos ..                      | Pistons and Piston-rings                                     | Grifos para el agua                       | Steam Traps                                                     |
| Cáncano (Artículos de)                            | India-rubber Goods             | Empaques de fricción                      | Clutches (Friction)                                          | Guas á caballo                            | Sheerlegs                                                       |
| Cáncano (Máquinas para tratar el)                 | Rubber Machinery               | Empaquetadura (material de)               | Jointing Materials (ver Engine and Hydraulic Leathers, etc.) | Grúas, grúas corredizas, cabrias, etc.    | Cranes, Travellers, Winches, etc. [Lining]                      |
| Cerveza (Instalaciones para hacer la)             | Brewery Plant                  | Enfriadores de agua de condensación       | Water-cooling Plant (ver también Cooling Towers)             | Guarnición del freno ..                   | Brake and Clutch                                                |
| Cestas ó palas automáticas                        | Grabs                          | Enganches (Ferrocarriles)                 | Couplings (Railway)                                          | Guarniciones de cuero                     | Leathers, hydraulic, etc.                                       |
| Chapa delgada (Piezas soldadas en)                | Sheet Metal Work (Welded)      | Engranajes, árboles, etc., de transmisión | Gears (Rawhide) etc.                                         | Guarniciones de má-quina y calderas       | Engine and Boiler-fittings                                      |
| Chapas embutidas y con borde vuelto               | Plates (Dished and Flanged)    | Engranajes de cuero ..                    | Worm Gearing                                                 | Guarniciones metálicas                    | Metallic Packing                                                |
| Chapas perforadas ..                              | Perforated Metals              | Engranajes de visfín                      | Worm Gearing                                                 | Guarniciones y accesorios, metal y otros  | Furniture and Fittings (Metals, etc.)                           |
| Chapas y planchas oblongas, y maquinaria para eso | Sheet Metal-work and Machinery | Escaleras ..                              | Ladders and Steps                                            | Guandastes; gatos ..                      | Jacks (Lifting) Winches (ver también Cranes)                    |
| Charbones (Electricidad)                          | Carbons (Electric)             | Escarpas y clavos ..                      | Spikes and Nails                                             |                                           |                                                                 |
| Charnals ..                                       | Hinges                         | Escritorios para ingenieros               | Cabinets (Engineers)                                         |                                           |                                                                 |
| Chimeneas ..                                      | Chimneys                       | Esmeril y tela esmerilada, etc.           | Emery and Emery Cloth, etc.                                  | Hélices aéreas ..                         | Propellers (Air) (ver también Fans and Blowers and Ventilators) |
| Chimeneas de laminación                           | Rolls (Chilled and Grain)      | Estaciones de alumbrado eléctrico         | Electric-Lighting Plant                                      | Hélices de navío                          | Screw Propellers                                                |
| Cimento (de escoria, Portland, etc.)              | Cement (Iron, Portland, etc.)  |                                           |                                                              | Herramientas actuadas por aire comprimido | Pneumatic Tools                                                 |
|                                                   |                                |                                           |                                                              | Herramientas eléctricas                   | Electric Tools                                                  |



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| Español.                                              | Inglés.                                               | Español.                                             | Inglés.                                             | Español.                                              | Inglés.                                                                                   | Español. | Inglés. |
|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------------------------------------|----------|---------|
| Ladrillos refractarios.                               | Fire Bricks ( <i>ver</i> Refractory Materials)        | Material desincrustante para calderas                | Disincrustants                                      | Pozos artesanos y varios (utensiles y maquinaria por) | Boring and Sinking Tools and Machinery ( <i>ver tambien</i> Rock Drills and Well Engines) |          |         |
| Lámparas ..                                           | Lamps ( <i>ver</i> Electric Lighting and Power Plant) | Material de desinfección Mazas, martinetes ..        | Disinfectors .. Refractory Materials                | Prensas de copiar ..                                  | Copying Presses                                                                           |          |         |
| Lámparas incandescentes                               | Incandescent Lamps                                    | Mecanismo de distribución por válvulas               | Valve Gear                                          | Prensas de forjar ..                                  | Forging Presses                                                                           |          |         |
| Lana de Madera (Maquinas de hacerla)                  | Wood Wool Machinery                                   | Mecheros de gas ..                                   | Burners (Gas)                                       | Prensas hidráulicas ..                                | Hydraulic Presses                                                                         |          |         |
| Lanchones y Yates                                     | Launches ( <i>ver</i> Barges)                         | Mecheros para quemar aceite                          | Oil Fuel Burners                                    | Prensas (Hand and Power)                              | Presses (Hand and Power)                                                                  |          |         |
| Lapices ..                                            | Pencils ( <i>ver</i> Drawing Instruments)             | Metal ensachado ..                                   | Expanded Metal                                      | Prensas de algodón ..                                 | Cotton Presses                                                                            |          |         |
| Levantadores mecánicos                                | Hoisting Machinery ( <i>ver</i> Lifting)              | Metal (acero especial)                               | Metals (Alloy Steels)                               | Privilegios de invención                              | Patent Law (Manufacturers under)                                                          |          |         |
| Limas ..                                              | Files ( <i>tambien</i> Cranes)                        | Metalles anitricción ..                              | Metals (antifriction)                               | —(Fabricantes que pueden ejecutar asuntos)            | —(Fabricantes que pueden ejecutar asuntos)                                                |          |         |
| Llantas ..                                            | Tyres (Railway)                                       | Metralla, recortes ..                                | Scrap Metal                                         | Proveedores de maquinaria, etc.                       | Merchants (Machinery, etc.)                                                               |          |         |
| Locomóviles ..                                        | Engines (Portable)                                    | Mezcladoras de hormigón                              | Concrete Mixers                                     | Proyectoros ..                                        | Searchlights                                                                              |          |         |
| Locomotoras ..                                        | Engines (Locomotive)                                  | Mica ..                                              | Mica Merchants                                      | Puentes ..                                            | Bridges ( <i>ver tambien</i> Structural Engineering)                                      |          |         |
| Locomotoras (Accesorios de)                           | Locomotives (Mountings for)                           | Micrometros ..                                       | Measuring Micrometers                               | Puertas estancas ..                                   | Doors (Watertight)                                                                        |          |         |
| Lubrificantes para maquinas herramientas              | Lubricants (Cutting)                                  | Minas (Maquinaria de)                                | Model Makers                                        | Pulverizadores ..                                     | Pulverisers                                                                               |          |         |
| Lubrificadores ..                                     | Lubricators                                           | Moldeadoras mecánicas                                | Moulding Machines                                   | Puntas de alfiler, etc. (Maquinas para fabricarlas)   | Nail (Wire, etc.) Making Machinery                                                        |          |         |
| Lubrificante para correa                              | Belt Treatment                                        | Molinos ..                                           | Turnstiles                                          | Quebrantadoras de piedras                             | Stonebreakers ( <i>ver tambien</i> Disintegrators)                                        |          |         |
| Madera (Procedimientos de secar y de conservación)    | Timber drying and preserving                          | Molinos de muelas ..                                 | Grinding Mills ( <i>ver tambien</i> Disintegrators) | Recalentadores de agua                                | Feed-water Heaters                                                                        |          |         |
| Madera de construcción                                | Timber                                                | Molinos de pintura, aceite, mortero, etc.            | Mills (Paint, Oil, Mortar, etc.)                    | Reducción de velocidad                                | Gearing (speed reducing)                                                                  |          |         |
| Magnetos ..                                           | Magnets                                               | Molinos y maquinas trituradoras de extracción de oro | Gold-crushing and Amalgamating Machinery            | Reguladores de maquinas a vapor                       | Governors (Engine)                                                                        |          |         |
| Mangriles, Mangotes ..                                | Chucks                                                | Motors de bencina ..                                 | Engines (Petrol)                                    | Remolcadores ..                                       | Tugboats                                                                                  |          |         |
| Mangos de herramientas                                | Handles (Tool)                                        | Motors de gas ..                                     | Engines (Gas)                                       | Requisitos de higiene ..                              | Sanitary Appliances                                                                       |          |         |
| Mangneras ..                                          | Hose Pipes                                            | Motors de petróleo ..                                | Engines (Oil)                                       | Revolvers ..                                          | Watches and Clocks                                                                        |          |         |
| Manómetros ..                                         | Gauges (Pressure)                                     | Motors eléctricos ..                                 | Electric Motors                                     | Retortas de hacer gas ..                              | Gas-producers                                                                             |          |         |
| Maquinaria agrícola de vapor                          | Steam-cultivating Machinery                           | Muelas amoladoras ..                                 | Grindstones                                         | Rieles de acero y hierro                              | Rails (Steel and Iron)                                                                    |          |         |
| Maquinaria de acufar ..                               | Coining Machinery                                     | Muelles de esmeril ..                                | Emery Wheels                                        | Rodillos compresores de vapor                         | Road Rollers (Steam)                                                                      |          |         |
| Maquinaria de blanquear                               | Bleaching Machinery                                   | Muelles; resortes ..                                 | Springs                                             | Ruedas de engranaje ..                                | Wheels (Gearing)                                                                          |          |         |
| Maquinaria de elaborar madera                         | Wood-Working Machinery                                | Muebles para fabricar (Maquinas para hacerlas)       | Furniture and Ammunition                            | Ruedas de engranaje de cuero                          | Wheels (Rawhide)                                                                          |          |         |
| Maquinaria de fabricar cemento                        | Cement-making Plant                                   | Munición de guerra ..                                | War Ammunition                                      | Ruedas hidráulicas ..                                 | Water Wheels                                                                              |          |         |
| Maquinaria de hilar ..                                | Haulage Plants                                        | Navegación marítima y agentes de transporte          | Shipping and Transport Agents                       | Ruedas para ferrocarriles                             | Wheels (Railway)                                                                          |          |         |
| Maquinaria de lavaderos                               | Laundry Machinery                                     | Oficinas (Articulos para)                            | Office Fittings, Furniture and Appliances           | Rueditas para fresas y discos para bacterias          | Milling Cutters and Cutter Blanks                                                         |          |         |
| Maquinaria de transportar y almacenar la bula         | Coal-handling Plant                                   |                                                      |                                                     |                                                       |                                                                                           |          |         |
| Maquinaria para el tratamiento de hojaldres           | Pastry Machinery                                      |                                                      |                                                     |                                                       |                                                                                           |          |         |
| Maquinaria para hacer alfarería y tejas encastilladas | Pottery and Encaustic Tile Machinery                  |                                                      |                                                     |                                                       |                                                                                           |          |         |





| Italiano.                                                                                       | Inglese.                                      | Italiano.                                                     | Inglese.                                                            | Italiano.                      | Inglese.                                       |
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| Abite da lavoro                                                                                 | .. Boiler Suits ( <i>vedi</i> Overalls, etc.) | Apparecchi d'imbianchire e pitturare                          | Whitewashing and Painting Machines                                  | Barili .. ..                   | Drums ( <i>vedi</i> Tanks and Drums)           |
| Accessione elettrica (Or- Igniters (Electric)                                                   |                                               | Apparecchi di cambio di moto (per barche automobili)          | Reversing Gears (Motor Boat)                                        | Barili (Macchine per farle)    | Cask-making Machinery                          |
| Accessori delle caldaie e Boiler Mountings and appa-<br>recchi di misura Scientific Instruments |                                               | Apparecchi d'illuminazione                                    | Lighting Apparatus ( <i>vedi</i> Electric Lighting and Power Plant) | Barre (Acciaio e Ferro)        | Bars (Steel and Iron)                          |
| Accessori delle macchine Engine and Boiler-fittings e caldaie                                   |                                               | Apparecchi di sollevamento                                    | Hoisting Machinery ( <i>vedi</i> <i>mobile</i> Cranes)              | Barre e profilati di bronzo    | Brass Rods and Sections                        |
| Acciaierie .. .. Steel Makers                                                                   |                                               | Apparecchi di trafila del filo, etc.                          | Wire Drawing Machines                                               | Battipalo                      | Pile Drivers                                   |
| Acciaio .. .. Steel and Iron Works (Plant for) ( <i>vedi</i> Iron and Steel Works)              |                                               | Apparecchi per controllo dell'entrata e uscita dei lavoratori | Time Checking Machines and Time Registers                           | Becchi a gas .. ..             | Burners (Gas)                                  |
| Acciaio per utensili, Steel (Tool, Special and special, e rapido High-speed)                    |                                               | Apparecchi per depurazione delle acque                        | Water-purifying Apparatus                                           | Benzina e i suoi succedanei    | Petrol and its Substitutes                     |
| Acciaio e metallo stampato (Pressed Steel and Metal Work)                                       |                                               | Apparecchi per estinguere incendi                             | Fire-extinguishing Apparatus                                        | Binari                         | Light Railways, Light and Portable             |
| Accoppiamenti degli alberi                                                                      | Couplings (Shaft)                             | Apparecchi per misurare la torsione                           | Torsion Meters                                                      | Birrerie (Impianti di)         | Brewery Plant                                  |
| Accoppiamenti per Couplings (Railway)                                                           |                                               | Apparecchi per scaricare i forni a coke                       | Coke Rams                                                           | Bottiglie da gas .. ..         | Bottles (gas) <i>vedi</i> Gas Cylinders        |
| Accumulatori elettrici Accumulators (Electric)                                                  |                                               | Apparecchi per scaricare le fogne                             | Cesspool Exhausters                                                 | Bucalmiere .. ..               | Stamping Machinery                             |
| Aeroplani e kiroplani Aeroplanes & Sea planes                                                   |                                               | Apparecchi per tiraggio forzato e indotto                     | Forced and Induced Draught Apparatus                                | Bussola .. ..                  | Compasses                                      |
| Agenti di brevetti .. Patent Agents                                                             |                                               | Arbitri .. .. Arbitrators                                     |                                                                     | Calcoli idraulici              | Hydraulic Rams                                 |
| Agente di assicurazione Insurance Companies                                                     |                                               | Argani .. .. Winlasses                                        | Capstans (Steam, Hydraulic and Electric)                            | Calcestruzzo, lastre di        | Concrete Blocks and Slabs. Machines for Making |
| Aggiustamento meccanico (Lavori d' Trade Crankshafts)                                           |                                               | Argenti a vapore, idraulici e elettrici                       | Steam, Hydraulic and Electric                                       | Caldaie a tubi d'acqua         | Boilers (Water-tube)                           |
| Alberi a gomito .. Elbows                                                                       |                                               | Arpioni e chiodi                                              | Spikes and Nails                                                    | Caldaie (Autoclavi delle)      | Manhole Doors                                  |
| Alimentatori automatici Automatic Feeders                                                       |                                               | Ascensori e montacarichi                                      | Lifts                                                               | Caloriferi                     | Boilers (Steam)                                |
| Alumino .. .. Aluminium                                                                         |                                               | Aspiratori di polveri ..                                      | Vacuum Dust Plant                                                   | Camini .. ..                   | Chimneys                                       |
| Alumino e prodotti d'alumino                                                                    | Aluminium and Products of Aluminium           | Assi .. .. Axles                                              |                                                                     | Campanelle e segnali elettrici | Electric Bells and Signals                     |
| Amianto (Articoli d' .. Asbestos Goods, Fittings, etc.)                                         |                                               | Assi a gonito .. ..                                           | Rank Axles                                                          | Cancellerie (Oggetti di)       | Office Fittings, Furniture and Appliances      |
| Ancore .. .. Anchors                                                                            |                                               | Assicurazione per le caldaie Boiler Insurance Companies       |                                                                     | Cancellieri grevati            | Turnstiles                                     |
| Apparecchi a getto di sabbia per pulire .. ..                                                   | Sand Blast Machines                           | Atuoci (Compagni d' ..)                                       | Drawing Instruments                                                 | Candele di accensione          | Spark Plugs ( <i>vedi</i> Igniters, Electric)  |
| Apparecchi ausiliari di Marina Auxiliaries                                                      |                                               | Autoclavi .. .. Autoclaves                                    | Boiler Manholes                                                     | Canoni e elementi per          | Guns and Gun Forgings                          |
| Apparecchi da palombari Diving Apparatus                                                        |                                               | Automobili .. .. Automobiles                                  | Motor Cars ( <i>vedi</i> Motor Vehicles)                            | Canotti automobili ..          | Motor Boats                                    |
| Apparecchi d'alaggio .. .. Haulage Plants                                                       |                                               | Autoclavi .. .. Autoclaves                                    | Boiler Manholes                                                     | Canotti navali                 | Shipbuilders                                   |
| Apparecchi d'avviamento dei motori e Accessories                                                |                                               | Bacini da carenaggio, etc.                                    | Docks (graving, etc.)                                               | Cantine (Utensili per)         | Canteen Equipment                              |
| Apparecchi d'ascicca-<br>mento Drying Apparatus                                                 |                                               | Barche e canotti .. ..                                        | Boats                                                               | Carboni (Elettrici)            | Carbons (Electric)                             |

| Italiano.                                                        | Inglese.                                                                                  | Italiano.                                    | Inglese.                                                                  | Italiano.                          | Inglese.                                                 | Italiano. | Inglese. |
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| Carroccolo                                                       | Barrows                                                                                   | Elice aeree                                  | Propellers (Air) <i>(vedi</i>                                             | Getti d'alluminio                  | Castings (Aluminium)                                     |           |          |
| Carroccino (Macchine per farlo)                                  | Cartriage-Making Machinery                                                                | Elice e ale d'eliche                         | <i>motore</i> Fans, Blowers, Ventilators)                                 | Getti in matrici                   | Die Castings                                             |           |          |
| Casse e materie d'imballo                                        | Safes Packing Cases and Cases (Gearing)                                                   | Elmi paralumino per pompieri                 | Screw Propellers and Propeller Blades                                     | Getti, metallo                     | Castings (Non-Ferrous)                                   |           |          |
| Catene di trasmissione                                           | Chains (Gearing)                                                                          | Essicatori per gas                           | Gas Exhausters                                                            | que ghisia e acciaio               | Castings (Iron)                                          |           |          |
| Cavandoni pneumatici                                             | Dredgers (Suction)                                                                        | Essicatori a forza trifuga                   | Centrifugal Drying Machines                                               | Ghisia (Getti di)                  | Castings (Malleable Iron)                                |           |          |
| Cavi catene                                                      | Cables (chain)                                                                            | Batrattori d'olio                            | Oil Extractors                                                            | Ghisia greggia                     | Iron (Pig)                                               |           |          |
| Cavi da illuminazione elettrica, cavi telegrafici e per telefoni | Cables (Electric Light, Telegraph and Telephone)                                          | Evaporatori                                  | Evaporators                                                               | Giroscopi                          | Gyroscopes                                               |           |          |
| Cavi elettrici                                                   | Electric Cables                                                                           | Evaporatori-distillatori                     | Distilling (Water) Apparatus                                              | Giunti (Massa e trattamento della) | Jointing Materials                                       |           |          |
| Cavi sottomarini (Apparati per la immersione dei)                | Cable Laying Machinery                                                                    | Fabbricanti                                  | Manufacturers <i>(vedi</i>                                                | Gomma elastica (Mercurio)          | India-rubber Goods                                       |           |          |
| Cementazione (Prodotti per)                                      | Case-hardening Materials                                                                  | Fabbricazione del gas                        | Gasworks (Plant for)                                                      | Gradite                            | Graphite (Lubricating, Sheets etc.)                      |           |          |
| Cemento (a scorie, Portland, etc.)                               | Cement (iron, Portland, etc.)                                                             | Ferro galvanizzato                           | Galvanised Ironwork                                                       | Grue a cavalletto                  | Cranes, Travellers, Winches, etc.                        |           |          |
| Cemento ordinario                                                | Concrete (Plain and Reinforced)                                                           | Ferrovie e imprenditori                      | Railways (Track and Contractors' Plant)                                   | Grue a gru sovravoli               | Furniture and Fittings (Metals, etc.)                    |           |          |
| Cemento (Impianti per la fabbricazione del)                      | Cement-making Plant                                                                       | Ferrovie (Materiale fisso)                   | Permanent Way                                                             |                                    | Packing, Engine and Hydraulic <i>(vedi</i> <i>molino</i> |           |          |
| Cerchioni da ruote di ferro                                      | Tyres (Railway)                                                                           | Ferrovie (Materiale mobile per)              | Railway Rolling Stock <i>(vedi</i> Carriage, Wagon and Engine—Locomotive) |                                    | Metallurgical Packing Leathers (Hydraulic, etc.)         |           |          |
| Cerchioni di gomma                                               | Tyres (Rubber)                                                                            | Ferrovie portatili                           | Portable Railways <i>(vedi</i> Railways, Portable)                        |                                    | Guarnizioni metalliche                                   |           |          |
| Chavere                                                          | Hinges                                                                                    | Ferrovie portatili e bi-paratili e tessitura | Light and Textile Machinery                                               |                                    | Guarnizioni di cuoio                                     |           |          |
| Chiodi: viti, etc.                                               | Bolts, Rivets, Nuts, Screws, etc.                                                         | Filanda (Macchine da)                        | Pipe Screwing and Cutting Machinery                                       |                                    |                                                          |           |          |
| Chiodi                                                           | Rivets <i>(vedi</i> Bolts, Rivets, Screws, etc.)                                          | Filatrici: macchina da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Chiodi per la costruzione dei ponti                              | Bridge Foundation Cylinders                                                               | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Cilindri per laminatoi                                           | Rolls (Chilled and Grain)                                                                 | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Cinghie                                                          | Belt (Leather, Canvas, etc.)                                                              | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Cinghie (grafici d'attacco delle)                                | Belt Fasteners (vass., etc.)                                                              | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Circulatori d'acqua per caldaie                                  | Hydrokinometers and Temperature Equalisers <i>(vedi</i> <i>molino</i> Boiler Circulators) | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Collettori di polvere                                            | Dust Collectors (Mills, Factories, Breweries, etc.)                                       | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Colori, vernici, etc.                                            | Paints, Varnishes, etc.                                                                   | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Combustibili liquidi                                             | Liquid Fuel, Oil Fuel                                                                     | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Composizione isolante                                            | Insulating Materials                                                                      | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Composizione per scorie                                          | Slag Compositions                                                                         | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Condacche                                                        | Condacches                                                                                | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Compressori d'aria                                               | Air Compressors                                                                           | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Compressori di gas ad alta pressione                             | Gas Compressors (High-pressure)                                                           | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |
| Conciliatori                                                     | Tanners and Curriers                                                                      | Filatrici: macchine da filare                | Textile Machinery                                                         |                                    |                                                          |           |          |

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|---------------------------|--------------------------|-------------------------|-----------------------|----------------------|-----------------------|--------------------------|--------------------------|
| Legno di costruzione ..   | Timber                   | Miniere di carbone (Im- | Colliery Plant        | Molli da macinare .. | Grinding Mills (vedi  | Puleggie di legno ..     | Pulleys (Wood)           |
| Leve per alzare rotale .. | Rail-lifters             | pianti per) ..          | Meters                | Molli per farina ..  | Flour, Corn and Rice) | Puleggie in ferro ..     | Pulleys (Wrought-iron    |
| Linee ..                  | Rails                    | Modeliste ..            | Model Makers and Pat- | Molli da affilare .. | tern Grindstones      | acciaio ..               | e Steels)                |
| Livellazione (Strumenti   | Surveying                | Mole da affilare ..     | tern Makers           | Molli per farina ..  | Flour Mill Machinery  | Puntinas etc. (Machine   | Nails (Wire, &c.), Ma-   |
| Locomobili ..             | Portable Engines (vedi   | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | per fare ..              | king Machinery           |
| Locomotive ..             | Locomotive Engines       | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Punzonatrici e cesole    | Punching and Shearing    |
| Locomotive ..             | Locomotive Engines       | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | meccaniche ..            | Machines                 |
| Locomotive (Accessori     | Locomotives (Mount-      | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Quadri ..                | Dials                    |
| di) ..                    | ings for)                | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | e apparecchi di          | Switchboards and Ac-     |
| Lubrificanti per cinghie  | Belt Treatment           | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | distribuzione ..         | cessories                |
| Lubrificanti per mac-     | Lubricants (cutting)     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Raffreddamento ad ac-    | qua (Torri e apparc-     |
| Lubrificanti ..           | Lubricants               | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | chi per il) ..           | chi per il)              |
| Macchine a vapore per     | Steam-cultivating Ma-    | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | macchine ..              | chine                    |
| coltivazione ..           | chines                   | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rame in lingotti, verghe | Copper Ingots, Bars and  |
| Macchine a vapore fisse   | Engines (Stationary)     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | e lastre ..              | Sheets                   |
| Macchine a vapore marine  | Engines (Marine)         | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Regolatori delle mac-    | Coppersmiths             |
| Macchine da saldare e     | Welding and Cutting      | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | chine ..                 | Governors (Engine)       |
| cesce ..                  | Plant                    | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Riduzione di velocità    | Gearing (speed-reduc-    |
| Macchine da ghiaccio ..   | Ice-making Machines      | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | (Organi di) ..           | chine                    |
| Macchine da scrivere ..   | Typewriters              | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Riscaldatori ..          | Boilers                  |
| Macchine d'estrazione ..  | Engines (Winding)        | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Riscaldamento ..         | Feed-water Heaters       |
| Macchine e strumenti      | Testing Machines and     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Riso (Impianti per sgu-  | ery                      |
| di prova ..               | Instruments              | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | sciare e lavorare il) .. | Mac-                     |
| Macchine di trazione ..   | Engines (Traction) (vedi | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Ritagli di cotone ..     | Waste (Cotton)           |
| macchine ..               | molte Tractors (Oil,     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rivestimento gal-        | Lac-                     |
| Macchine e impianti       | Steam, etc.)             | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | vanico, verniciatura,    | quering, Bronzing        |
| di fucine ..              | Forging Machines and     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rivestimento del freno   | Brake                    |
| Macchine e utensili agri- | Plant                    | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Robineti (Valvole da     | Cocks (vedi Valves, Gas, |
| coli ..                   | Agricultural Machinery   | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | etc.) ..                 | etc.)                    |
| Macchine idrauliche ..    | Hydraulic Machinery      | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Robineti per acqua di    | Steam Traps              |
| Macchine per appretto     | Cloth-Finishing Machi-   | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rompipietre ..           | Stonebreakers (vedi      |
| dei tessuti ..            | nes)                     | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rotaie di acciaio ..     | Disintegra-              |
| Macchine per la fabbri-   | Coining Machinery        | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | di ferro ..              | tors)                    |
| Macchine per la fabbri-   | Bolt and Nut-making      | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Rottami, ritagli ..      | Scrap Metal              |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Ruggine (Prodotto per    | Rust Preventive          |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | protezione contra la)    | Gearing (vedi            |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Ruote per ferrovie ..    | Wheels, Railway          |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Ruote d'ingranaggio ..   | Gearing (vedi            |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Sabbia per forme ..      | Sand (Moulding)          |
| Macchine per la fabbri-   | Machine                  | Molli da affilare ..    | Flour Mill Machinery  | Molli da macinare .. | Flour, Corn and Rice) | Saldature ..             | Solders                  |



|                                               |                                                                                  |                                                                       |                                                                                  |                                                                      |                                                                      |
|-----------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| Macchine per scanalare e modellare            | Slotting and Shaping Machines ( <i>vedi</i> Machine Tools)                       | Perforatrici ..<br>Petiti ingegneri ..<br>Petrolio (Magazzinaggio de) | .. Rock Drills<br>.. Surveyors, etc.<br>.. Petrol Storage                        | Saracinesche ..<br>Sbarre da graticole ..<br>Sbianche (Impianti per) | .. Sluices<br>.. Fire Bars<br>.. Bleaching Machinery                 |
| Macchine per tagliare ingranaggi              | Wheel-cutting Machinery                                                          | Pezzi fucinati a stampa                                               | Forgings (Drop)                                                                  | Scale ..<br>Scambi e incroci ..<br>Scaltri ..                        | .. Ladders and Steps<br>.. Switches and Crossings<br>.. Boxes        |
| Macchine per troncane                         | Cutting-off Machines                                                             | Pezzi fucinati (bronzo, ottone, rame, etc.)                           | Forgings (Bronze, Copper, etc.)                                                  | Scaltri ..<br>Scaltri ..<br>Scaltri ..                               | .. Gold Dredgers<br>.. Boxes<br>.. Boxes                             |
| Macchine refrigeranti                         | Refrigerating Machinery                                                          | Pezzi fucinati (ferro e acciaio)                                      | Forgings (Iron and Steel)                                                        | Scaltri ..<br>Scaltri ..<br>Scaltri ..                               | .. Hvacators<br>.. Launches and Yachts<br>.. Cream Separators        |
| Macchine soffianti                            | Engines (Blowing)                                                                | Pezzi fucinati (metal altro que ferro)                                | Forgings (Non-Ferrous)                                                           | Scaltri ..<br>Scaltri ..<br>Scaltri ..                               | .. Name Plates<br>.. Grabs<br>.. Grabs                               |
| Macchine utensili diversi                     | Machine Tools ( <i>vedi</i> Tools, Hand and Small, and Second - hand Tools)      | Pezzi stampati (bronzo, ottone, rame, alluminio, etc.)                | Stampings (Bronze, Brass, Aluminium, etc.)                                       | Scaltri ..<br>Scaltri ..<br>Scaltri ..                               | .. Valve Reseating Machines<br>.. chines.<br>.. chines.              |
| Magli a vapore ..                             | Hammers (Steam) ( <i>vedi</i> Hammers, Power)                                    | Piallatrici ..                                                        | Machine Tools                                                                    | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. (Fresatrici per sfacciare le)                                     |
| Magli meccanici                               | Hammers (Power & Drop)                                                           | Piastre di corazzatura ..                                             | Armour-plates                                                                    | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Saw Mill Machinery<br>.. Railway Signals<br>.. Steam Separators   |
| Magnetni                                      | Magnets                                                                          | Piatteforme ..                                                        | Turntables                                                                       | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Sirens and Whistles<br>.. Sites (Industrial)                      |
| Magnetni di sospensione                       | Magnets (Lifting)                                                                | Platte di cario ..                                                    | Lighters ( <i>vedi</i> Barges)                                                   | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Manichie da utensili                          | Hose Pipes                                                                       | Picconi, pale e vanghe                                                | Picks, Shovels and Spades                                                        | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Maniche da utensili                           | Handles (tool)                                                                   | Pignoni di cacio ..                                                   | Rawhide Wheels ( <i>vedi</i> Wheels, Rawhide)                                    | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Manometri                                     | Gauges (Pressure)                                                                | Piometri e termometri                                                 | Pyrometers and Thermometers                                                      | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Manovelle da vapore                           | Winches (Steam) ( <i>vedi</i> Cranes)                                            | Polvere e fulmicotone (Macchine per fabbricare)                       | Gunpowder and Cotton Machinery                                                   | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Materassi e materiale isolante per caldaie    | Composition for Covering Boilers, etc. ( <i>vedi</i> Non-conducting Composition) | Polverizzatrice (Macchine per)                                        | Pulverisers                                                                      | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Materassi stampati                            | Drop Forgings ( <i>vedi</i> Drop Forgings, Drop)                                 | Pompe centrifughe ..                                                  | Pumps (Centrifugal)                                                              | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Materie annottante                            | Abrasives                                                                        | Pompe d'alimentazione (Piccoli cavalletti)                            | Pumps (Donkey)                                                                   | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Materie isolanti                              | Non-conducting Compositions                                                      | Pompe d'aria ..                                                       | Pumps (Air) ( <i>vedi</i> Air Pumps, Condensers)                                 | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Materie refrattari                            | Refractory Materials                                                             | Pompe del vuoto                                                       | Pumps (Vacuum)                                                                   | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mattie ..                                     | Pencils ( <i>vedi</i> Drawing Instruments)                                       | Pompe e macchine elettrolitiche                                       | Pumps and Pumping Machinery                                                      | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mattonelle (Impianti per la fabbricazione di) | Briquette (Machinery)                                                            | Pompe a vapore                                                        | Engines (Pumping)                                                                | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mattoni refrattari                            | Fire Bricks ( <i>vedi</i> Refractory Materials)                                  | Pompe per le Colonie ..                                               | Pumps (Colonial)                                                                 | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mattoni e tegole (Macchine per fabbricare i)  | Brick and Tile-making Machinery                                                  | Pompe turbine                                                         | Pumps (Turbine)                                                                  | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mecanismo di distribuzione per valvole        | Valve Gear                                                                       | Ponti ..                                                              | Bridges ( <i>vedi</i> Structural Engineering)                                    | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mecchie a spirale                             | Drills (Twist)                                                                   | Porte stagne ..                                                       | Doors (Watertight)                                                               | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mercanti di macchine, etc.                    | Merchants (Machinery, etc.)                                                      | Pozzi (macchine e utensili per l'escavo)                              | Wells for Shafts and Trenches ( <i>vedi</i> Trenches, Drills and Well Engineers) | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mercanti di ferro                             | Iron Merchants                                                                   | Pressa a foggare                                                      | Presses (Forging)                                                                | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mescolatrici per calcestruzzo                 | Mixers                                                                           | Pressa per cotone                                                     | Cotton Presses                                                                   | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mescolatrici per calcestruzzo                 | Concrete Mixers                                                                  | Pressa idraulica                                                      | Presses (Hydraulic)                                                              | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Metalli (Acciaio speciale)                    | Metals (Alloy Steels)                                                            | Pressa meccanica                                                      | Presses (Power)                                                                  | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Metalli Antirifusione                         | Metals (Antifriction)                                                            | Prodotti chimici (Impianti per la fabbricazione del)                  | Chemical Works (Plant for)                                                       | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Mica                                          | Mica Merchants                                                                   | Proiettori                                                            | Searchlights                                                                     | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Micrometri                                    | Measuring Machines ( <i>vedi</i> Micrometers)                                    | Pulegge di ghisa                                                      | Pulleys (Cast-iron)                                                              | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |
| Miniere di carbone                            | Colliery Proprietors                                                             |                                                                       |                                                                                  | Sedili ..<br>Sedili ..<br>Sedili ..                                  | .. Smerigliatrici ..<br>.. Smerigliatrici ..<br>.. Smerigliatrici .. |

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| Timoni (Apparati per la manovra a distanza del)     | Steering Gear                                                                | Tubi di ghisa (Fonderie di)                     | Pipe Founders ( <i>vedi inoltre</i> Tubes)                | Valvole regolatrici d'alimentazione              | Feed-water Regulators                                                       |           |          |
| Torchi per olio                                     | Oil Mill Machinery                                                           | Tubi d'ottone e di rame                         | Tubes (Brass & Copper) ( <i>vedi inoltre</i> Pipes)       | Vaporizzatori                                    | Carburettors and Vaporisers                                                 |           |          |
| Torchi idraulici                                    | Hydraulic Presses                                                            | Tubi grandi in lamiera saldati a sovraposizione | Pipes (Large and Lap-welded) ( <i>vedi inoltre</i> Tubes) | Vasche; recipienti; serbatoi                     | Tanks and Drums                                                             |           |          |
| Torpediniere                                        | Tools                                                                        | Tubi indicatori di livello                      | Gauge Glasses                                             | Venditori all'incanto di macchine                | Auctioneers (Engineering)                                                   |           |          |
| Tramvie e materiale per Plant                       | Torpedo Boats                                                                | Tubi (Macchine per fabbricare)                  | Tube-making Machinery                                     | Ventilatori                                      | Blowers ( <i>vedi</i> Fans, Ventilators and Air Propellers)                 |           |          |
| Trapani                                             | Tramways and Tramway Plant                                                   | Tubi metallo altro que ferro                    | Tubes (Non-Ferrous)                                       | Ventilatori e macchine soffiati                  | Fans and Blowers                                                            |           |          |
| Trasmissioni d'ordini; telegrafi navali             | Drilling Machines ( <i>vedi</i> Machine Tools)                               | Tubi a serpentino                               | Coils (Pipe and Tube)                                     | Vetrate                                          | Glazing                                                                     |           |          |
| Trasmissioni ad ingranaggi, alberi, etc.            | Telegraphs (Engine and Steering)                                             | Turbine                                         | Turbines                                                  | Vetture ferroviarie (Costruttori di)             | Carriage Builders (Railway)                                                 |           |          |
| Trasmissioni, accessori e alberi                    | Mill-gearing, Shafting, etc.                                                 | Turbine ad acqua                                | Water-wheels                                              | Vetture ferroviarie (Guarnizioni delle)          | Carriage (Railway) Fittings                                                 |           |          |
|                                                     | Shafting and Shaft Fittings ( <i>vedi inoltre</i> Plummer Blocks, Bearings)  | Turbine a vapore e accessori                    | Steam Turbines and Fittings                               | Vie aeree                                        | Runways                                                                     |           |          |
| Trasportatori                                       | Conveyors ( <i>vedi inoltre</i> Transporters)                                | Utensili a mano                                 | Tools (Hand and Small) ( <i>vedi</i> Machine Tools)       | Viti, etc.                                       | Screws, etc.                                                                |           |          |
| Trasportatori, caricatori e scaricatori del carbone | Coal-handling Plant                                                          | Utensili elettrici                              | Electric Tools                                            | Vulcanite e fibra vulcanizzata                   | Vulcanite and Vulcanised Fibre                                              |           |          |
| Traverse per ferrovie                               | Sleepers (Railway) ( <i>vedi inoltre</i> Permanent Way)                      | Utensili pneumatici                             | Pneumatic Tools                                           |                                                  |                                                                             |           |          |
| Travi                                               | Joists Rolled (Iron and Steel)                                               | Utensili usati                                  | Second-hand Tools                                         | Wagoni automotori                                | Wagons, Self-Propelled ( <i>vedi</i> Carriage, Wagon and Engine—Locomotive) |           |          |
| Travilaminati di ferro e acciaio                    | Trusses                                                                      | Vagonetti scaricatori                           | Wagons (Tip)                                              |                                                  |                                                                             |           |          |
| Triturazione e essiccazione di carbone              | Coal Pulverising and Drying Plant                                            | Vagoni (Costruttori di)                         | Wagon (Railway) Builders                                  | "Woodite" (Materiale isolante e per guarnizioni) | "Woodite" for Steam, Electrical, and Hydraulic Packings                     |           |          |
| Tubi di ferro e acciaio                             | Pipes (Wrought Iron and Steel) ( <i>vedi inoltre</i> Tubes (Iron and Steel)) | Valvole d'arresto d'alimentazione               | Feed-check Valves (Combination)                           | Yachts                                           | Yachts ( <i>vedi</i> Launches and Yachts)                                   |           |          |
|                                                     |                                                                              | Valvole da gas, vapore, acqua, etc.             | Valves (Gas, Water, etc.)                                 |                                                  |                                                                             |           |          |
|                                                     |                                                                              | Valvole di riduzione                            | Reducing Valves                                           |                                                  |                                                                             |           |          |
|                                                     |                                                                              | Valvole di sicurezza                            | Valves (Safety)                                           |                                                  |                                                                             |           |          |

# BRITISH ENGINEERING STANDARDS ASSOCIATION,

28, Victoria Street, Westminster, London, S.W.1.

## PRICE LIST OF BRITISH STANDARD SPECIFICATIONS AND REPORTS, MAY, 1921.

The price of each publication is 1/- (unless otherwise indicated); postage 2d. inland, 4d. abroad.

*(This List cancels all previous Lists.)*

NOTE.—A number of the Publications of the Association are being issued in French, Italian, Spanish and Portuguese.

### Report

No.

- ✓ 1-1920. Rolled Sections for Structural Purposes.
- ✓ 2-1903. Tramway Rails and Fishplates.
- ✓ 3-1903. Influence of Gauge Length and Section of Test Bar on the Percentage of Elongation, Report on, by Professor W. C. UNWIN, F.R.S.
- 7-1919. Copper Conductors, Insulated Annealed, for Electric Power and Light.
- 8-1904. Tramway Poles, Tubular.
- 9-1909. Railway Rails, Bull head.
- 10-1904. Pipe Flanges, Tables of.
- 11-1909. Railway Rails, Flat Bottom.
- ✓ 12-1920. Portland Cement.
- 13-1910. Steel for Shipbuilding.
- 14-1907. Steel for Marine Boilers.
- 15-1912. Steel for Bridges, etc., and General Building Construction.
- 18-1910. Tensile Test Pieces, Forms of. (Gratis.)
- 21-1909. Pipe Threads for Iron or Steel Pipes and Tubes.
- 23-1905. Trolley Groove and Wire.
- 24-Railway Rolling Stock, Specifications for Material used in the Construction of—
  - Part I. (1921).—Axles.
  - Part II. (1921).—Tyres.
  - Part III. (1921).—Springs.
  - Part IV. (1921).—Steel Forgings, Blooms and Castings.
  - Part V. (1911).—Copper Plates, Rods and Tubes, and Brass Tubes.
  - Part VI. (1921).—Structural and Boiler Steel.
- 27-1906. Limit Gauges for Running Fits.

### Report

No.

- 28-1908. Nuts, Bolt Heads and Spanners.
- 29-1909. Steel Forgings for Marine Purposes.
- 30-1907. Steel Castings for Marine Purposes.
- 31-1910. Steel Conduits for Electrical Wiring.
- ✓ 32-1907. Steel Bars for use in Automatic Machines.
- 35-1907. Copper Alloy Bars for use in Automatic Machines.
- ✓ 37-1919. Electricity Meters.
- 40-1908. Cast Iron Low Pressure Heating Pipes.
- 41-1908. Cast Iron Flue or Smoke Pipes.
- 43-1909. Boiler Tubes, Charcoal Iron Lap-welded.
- 44-1909. Cast Iron Pipes for Hydraulic Power.
- ✓ 45-1917. Sparking Plugs (for Internal Combustion Engines).
- 46-1909. Keys and Keyways.
- 47-1919. Steel Fishplates, for Railway Rails.
- 48-1909. Wrought Iron of Smithing Quality for Shipbuilding (Grade D).
- 51-1913. Wrought Iron for use in Railway Rolling Stock.
- 53-1913. Boiler Tubes for Locomotive Boilers. Cold drawn Weldless Steel.
- 54-1911. Screw Threads, Nuts and Bolt Heads for use in Automobile Construction.
- 55-1911. Copper and Bronze Wire.
- 56-1911. Wire Point and Elastic Limit. (Gratis.)
- ✓ 57-1920. Heads for British Association Screws.
- 58-1912. Cast Iron Soil Pipes.

**Report  
No.**

- 59-1912. Cast Iron Waste and Ventilating Pipes.  
61-1913. Copper Tubes and their Screw Threads.  
62-1913. Marine Boiler Stays, Screwing for. (Gratis.)  
63-1913. Broken Stone and Chippings.  
64-1913. Fishbolts and Nuts for Railway Rails.  
65-1914. Salt-Glazed Ware Pipes.  
66-1914. Copper-Alloy Three-Piece Unions.  
67-1914. Ceiling Roses.  
68-1914. Steel Conductor Rails, Resistance of.  
69-1915. Tungsten Filament Glow Lamps (Vacuum Type) for Automobiles.  
72-1917. Electrical Machinery, British Standardisation Rules for.  
73-1919. Two-Pin Wall Plugs and Sockets.  
74-1917. Charging Plug and Socket, for Vehicles Propelled by Electric Secondary Batteries.  
75-1916. Steels for Automobiles, Wrought.  
76-1916. Tars, Pitches, Bitumens and Asphalts for Road Purposes.  
77-1921. Electrical Pressures for New Systems and Installations. (Gratis.)  
78-1917. Cast Iron Pipes for Water, Gas and Sewage.  
79-1919. Special Trackwork for Tramways.  
81-1919. Instrument Transformers.  
82-1919. Starters for Electric Motors.  
83-1918. Dope and Protective Covering for Aircraft, Standard of Reference for.  
84-1918. Screw Threads (British Standard, Fine).  
86-1919. Magnetos for Aircraft Purposes.  
87-1919. Airscrew Hubs.  
88-1919. Electric Cut-Outs (Low Pressure, Type O).  
89-1919. Indicating Ammeters, Voltmeters, Wattmeters, Frequency and Power-Factor Meters.  
90-1919. Recording (Graphic) Ammeters, Voltmeters and Wattmeters.  
91-Electric Cable Soldering Sockets.

**Report  
No.**

- 94-1920. Watertight Glands for Electric Cables.  
95-1919. Corrections to Effective Diameter required to compensate Pitch and Angle Errors in Screw Threads of Whitworth Form, Tables of.  
97-1920. Watertight Fittings for Incandescent Electric Lamps.  
98-1919. Goliath Lamp Caps and Lamp Holders.  
100-1920. Body Spaces and Frame Ends for Private Automobiles.  
103-1919. Falling Weight Testing Machines for Rails. (Gratis.)  
104-1919. Light Flat Bottom Railway Rails and Fishplates, Sections of.  
105-1919. Light and Heavy Bridge Type Railway Rails, Sections of.  
106-1920. Electrically Heated Cooking Range (Two Sizes).  
107-1919. Rolled Sections for Magnet Steel.  
111-1920. Wrought Steels for Aircraft.  
112-1920. Cold Worked Steels for Aircraft.  
113-1920. Sheet Steels for Aircraft.  
114-1920. Valve and Valve Spring Steels for Aircraft.  
122-1920. Milling Cutters and Reamers.  
131-1920. Notched Bar Test Pieces.  
132-1920. Steam Turbines for Electrical Plant.  
135-1921. Benzol for Motor Fuel.  
136-1920. Automatic Telephone Systems, Terms and Definitions.  
139-1921. Red Fir Wood Poles for Telegraphs and Telephones.

**INTERIM REPORTS.**

- C.L. 2582. Ball Journal Bearings for Automobiles, Single Row. (Gratis.)  
C.L. 3750. French Metric Screw Threads for Aircraft Purposes. (6d.)  
C.L. 7270. Screw Threads, British Standard Whitworth.  
C.L. 7271. Screw Threads, British Association.  
C.L. 8564-1920. Rubber Tyres for British Standard Rims, List of.

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TECHNOLOGY DIVISION

# "ENGINEERING"

## DIRECTORY.

—◆—  
No. 69.—APRIL, 1922.  
—◆—

COMPILED AND CLASSIFIED  
FROM THE  
CURRENT ADVERTISEMENTS  
IN  
"ENGINEERING;"  
TOGETHER WITH THE  
TELEGRAPHIC ADDRESSES, CODES, AND TELEPHONE NUMBERS  
OF THE ADVERTISERS,  
ALSO  
GLOSSARIES FOR THE USE OF FOREIGN BUYERS.

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Offices:
"ENGINEERING," LIMITED,
35. & 36, BEDFORD STREET, STRAND, LONDON, W.C.2.

[ENTERED AT STATIONERS' HALL.]

Over **80,000** Copies of this Directory are distributed gratuitously every year throughout the World.

NOTICE.

THE following Directory is compiled entirely from the Advertisement columns of "ENGINEERING," and is sent gratuitously to the principal employers and shippers of machinery at home and abroad, to Foreign and British Consuls, and to the Heads of Departments of the most important railways throughout the world; also to the Members and Associates of the Institutions of Civil and Mechanical Engineers, the Iron and Steel Institute, and the other leading Scientific Societies having any connection with the Engineering Trades. Thus, in addition to the advantages already secured to the advertisers in "ENGINEERING," by its large and influential circulation, special facilities are afforded for bringing them and probable purchasers into direct communication.

Full information as to the various articles comprised in this Directory will be found in the Advertisement Columns of "ENGINEERING." On page 5 of the Advertisement Sheets in each week's issue is an Alphabetical Index of the Advertisements in that particular number.

This Directory contains, amongst other matters, the Registered Telegraphic Address, Key to same, Telegraph Codes in use by Advertisers and their Telephone Numbers.

For the use of our Foreign Friends we have now added a Glossary of the Equivalents in French, Spanish, and Italian, of the headings under which articles advertised in "ENGINEERING" are classified in this Directory.

The Directory may be obtained gratis on application to the Publisher of

"ENGINEERING,"

35 AND 36, BEDFORD STREET, STRAND, LONDON, W.C.2.

For Advertisement and Subscription Rates, see page 3 of this Cover.

Telegraphic Address of "ENGINEERING,"
ENGINEERING, WESTRAND, LONDON.

A B C and Western Union Codes used.

Telephone Nos. 3663 and 8598 Gerrard.

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OFFICES FOR ADVERTISEMENTS AND PUBLICATION, 35 & 36, BEDFORD STREET, STRAND, LONDON, W.C.2.

VOL. CXIII.—No. 2934.]

LONDON: FRIDAY, MARCH 24, 1922.

[Published of the "Globe" (Printed and Published by the "Globe" Press—No. 10, St. Martin's Lane, W.C.2.)

Arveling & Porter, Ltd.
ROCHESTER.

Steam Road Rollers & Tractors.

A. G. Mumford, Ltd.
CULVER STREET WORKS, COVENTRY.

BOILERS FIRED BY STEAM.
See advertisement page 17 and 18.
AUTOMATIC FEED EMULATORS.
See advertisement page 17 and 18.

Dredging Plant.
See advertisement page 17 and 18.

Werf Conrad, Rotterdam.
See advertisement page 17 and 18.

Crane—Electric, Steam, Hydraulic and Hand.
See advertisement page 17 and 18.

Thos. Pigott & Co., Limited.
See advertisement page 17 and 18.

"Spencer-Hopwood" Patent Water-Ho Boilers.
See advertisement page 17 and 18.

Tank Locomotives.
See advertisement page 17 and 18.

Cochran Boilers.
See advertisement page 17 and 18.

Petter Oil Engines.
See advertisement page 17 and 18.

Petters Limited, Ipswich.
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See advertisement page 17 and 18.

Electric Cranes.
See advertisement page 17 and 18.

Fuller, Horsey, Sons & Cassell.
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Yarrow & Co., Ltd.
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Yacht Launches or Barges.
See advertisement page 17 and 18.

Cement—Maxted & Knott.
See advertisement page 17 and 18.

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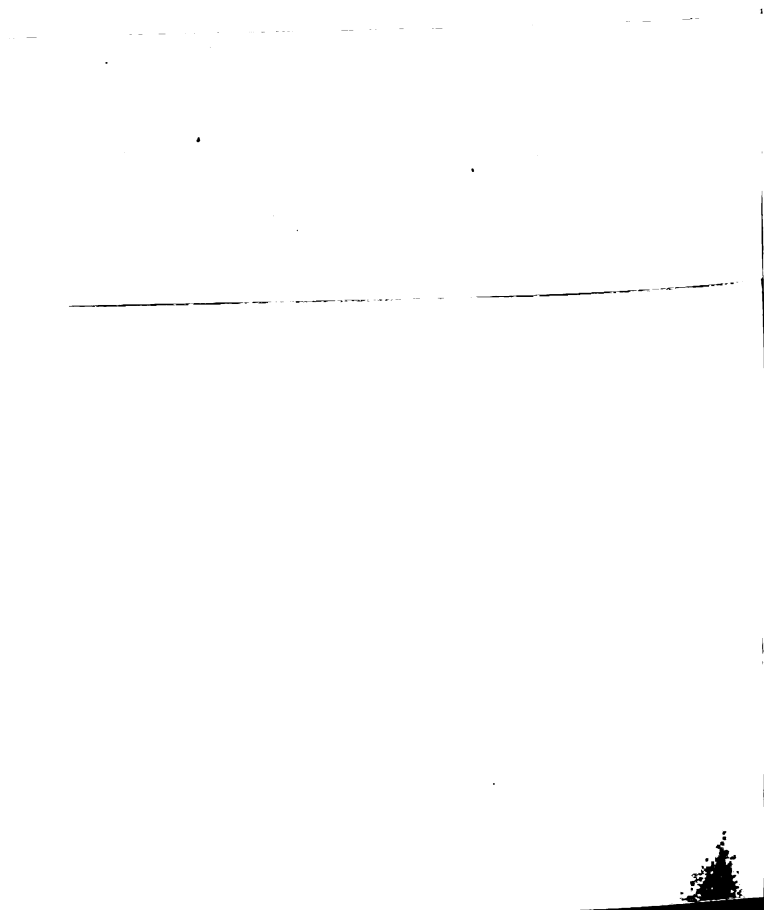
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"ENGINEERING" DIRECTORY.

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For the use and assistance of our many foreign friends there will be found on the following pages GLOSSARIES in FRENCH (page 101), SPANISH (page 107), and ITALIAN (page 113), of the HEADINGS under which the articles advertised in "ENGINEERING" are Classified in this Directory.

Dans le but de faciliter les recherches à nos nombreux lecteurs de l'Etranger, nous donnons la TRADUCTION en FRANÇAIS (page 101), ESPAGNOL (page 107), et ITALIEN (page 113), des EN-TÊTE sous lesquels sont classées dans la présente brochure, les annonces publiées dans "ENGINEERING."

Para servicio de nuestros numerosos lectores en los varios paises, damos una TRADUCCIÓN en FRANCES (página 101), ESPAÑOL (página 107), é ITALIANO (página 113), de los TITULOS con que estan clasificados en este librerio los anuncios que publica "ENGINEERING."

Onde facilitare la ricerca ai nostri lettori stranieri, abbiamo aggiunto a questo opuscolo la TRADUZIONE FRANCESE (página 101), SPAGNUOLA (página 107), E ITALIANA (página 113), dei NOMI DEGLI ARTICOLI sotto quali sono classificati gli annunci pubblicati nel "ENGINEERING."

The Publisher would esteem it a favour if persons using this Directory *would make reference thereto* in their Correspondence with Manufacturers.

CLASSIFIED DIRECTORY

OF

CURRENT ADVERTISEMENTS in "ENGINEERING."

Abrasives.

Accumulators (Electric).

Acetylene.—(See Welding & Cutting Plant).

Aeroplanes, Seaplanes.

Robey & Co., Ltd. Lincoln
Vickers Limited Vickers House, Broadway, Westminster, S.W.
White J., Samuel, & Co., Ltd. East Cowes, Isle of Wight

Agricultural Machinery.—(See also Engines and Steam Cultivating Machines.)

Agricultural & General Engineers, Ltd. Central House, Kingsway, W.C.2.
Aveling & Porter, Ltd. Rochester
Blackstone & Co., Ltd. Rutland Works, Stamford
Davey, Paxman & Co., Ltd. Colchester
Fowler J., & Co. (Leeds), Ltd. Leeds
Garrett R., & Sons, Ltd. Leiston Works, Suffolk
Marshall, Sons & Co., Ltd. Gainsborough
Ransomes Sims & Jefferies, Ltd. Ipswich
Robey & Co., Ltd. Lincoln
Ruston & Hornsby, Ltd. Lincoln & Grantham

Air Compressors.—(See also Gas Compressors—High Pressure.)

Airstyle & Lithos, Ltd. 35, St. Bride St., Ludgate Circus, E.C.
Allen W. H., Sons, & Co., Ltd. Bedford
Alley & Maclellan, Ltd. Sentinel Works, Glasgow
Anderson Foundry Co., Ltd. 100, Cheapside St., Glasgow
Bailey Sir W.H., & Co., Ltd. Salford, Manchester
Bellis & Morcom, Ltd. Birmingham
British Thompson-Houston Co., Ltd. Rugby
Broom & Wade, Ltd. High Wycombe
Brotherhood P., Ltd. Peterborough
Consolidated Pneumatic Tool Co., Ltd. Egyptian House, 170, Piccadilly, W.1
Davey, Paxman & Co., Ltd. Colchester
Entwistle & Gass, Ltd. Bolton
Escher, Wyss & Co. 20, Grosvenor Gardens, S.W.1
Fraser & Chalmers Engineering Works, Erith, Kent
Fullerton, Hodgart & Barclay, Ltd. Paisley, Scotland
Globe Pneumatic Engineering Co., Ltd. 1, Victoria St., S.W.1
Hamworthy Engineering Co., Ltd. 76, Victoria St., S.W.

Air Compressors.—Continued.

Hughes & Lancaster 16, Victoria St., S.W.
Ingersoll-Rand Co., Ltd. 165, Queen Victoria St., E.C.
Laurence, Scott & Co., Ltd. Norwich.
Manlove, Alliott & Co., Ltd. Nottingham
Parsons C. A., & Co., Ltd. Heaton Wks., Newcastle-on-Tyne
Premier Cooler & Engineering Co., Ltd. Station Works, Shalford, nr. Guildford, Surrey
Reavell & Co., Ltd. Ipswich
Robey & Co., Ltd. Lincoln
Sandycroft, Limited Chester
Seagers, Ltd. Dartford, Kent
Siebe, Gorman & Co., Ltd. Neptune Works, Lambeth, S.E.
Walker Bros. (Wigan), Ltd. Pagefield Iron Works, Wigan
Westinghouse Brake & Saxby Signal Co., Ltd. York Rd., King's Cross, N.
Worthington-Simpson, Ltd. Queen's House, Kingsway, W.C. 2

Air Pumps.—(See also Condensers.)

Caird & Rayner 777, Commercial Road, Limehouse, B.
Carruthers J.H., & Co., Ltd. Polmadie Ironworks, Glasgow
Cole, Marchant & Morley, Ltd. Bradford
Dawson & Downie, Ltd. Clydebank
Friedenthal F. River Engine Wks., Preston
General Electric Co., Ltd. Magnet House, Kingsway, W.C.2
Hall J. P., & Sons Peterborough
Manlove, Alliott & Co., Ltd. Nottingham
Metropolitan-Vickers Electrical Co., Ltd. Trafford Park, Manchester
Mirreles Watson Co., Ltd. Chester
Mumford A. G., Ltd. Scotland St., Glasgow
Rees Roturbo Manufacturing Co., Ltd. Colchester
Warner Robert, & Co. (Engineers), Ltd. Wolverhampton, Eng.
Weir G. & J., Ltd. 14-16, Cockspur St., S.W.1
Worthington-Simpson, Ltd. Cathcart, Glasgow
Zwicky Pump Co., Ltd. Queen's House, Kingsway, W.C. 2
Salsbury House, London Wall, E.C.2

Alloys.—(See Metals, &c.)

Aluminium and Aluminium Goods.

British Insulated & Helsby Cables, Ltd. Prescot, Lancashire

Aluminium and Aluminium Goods—Continued.

Everitt & Co., Ltd. .. 40, Chapel St., Liverpool
 Le Bas Edward, & Co. .. Dock House, Billiter St.,
 E.C.
 Ward Thos. W., Ltd. .. Albion Works, Sheffield

Ammunition.

Firth Thos. & Sons, Ltd. ... Norfolk Works, Sheffield
 Vickers Limited Sheffield

Anchors.

Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq.,
 Glasgow
 Wood Henry & Co., Ltd. Saltney, near Chester

Arbitrators.

Kirk W., Price & Co. .. 46, Watling St., E.C.; and
 Albert Sq., Manchester

Armour Plates.

Beardmore W., & Co., Ltd. Glasgow
 Brown John, & Co., Ltd. Sheffield
 Cammell Laird & Co., Ltd. Sheffield
 Vickers Limited Sheffield

Armoured Concrete.—(See Concrete, Reinforced.)**Asbestos Goods, &c.—(See also Jointing Materials, and Packings—Engine and Hydraulic.)**

Bell's United Asbestos Co., Ltd. 39½, Southwark St., S.E.
 Billington & Newton, Ltd. Longport, Staffordshire
 Cresswells Ltd. Wellington Mills, Bradford

Ash Ejectors.

Carron Co. Carron, Stirlingshire
 Trewant F. J., & Proctor, Ltd. 43, Billiter Buildings, E.C.

Astronomical Instruments.—(See Instruments—Electrical, Surveying, &c.)**Auctioneers, Valuers and Surveyors (Engineering).**

Butcher Henry, & Co. .. 63-64, Chancery Lane, W.C. 2
 Dixon, Geo. N., & Co. .. 41, Castle St., Liverpool
 Fuller, Horsey, Sons and Cassell 11, Billiter Square, E.C.
 Kirk W., Price & Co. .. 46 Watling St., E.C.; and
 Albert Sq., Manchester
 Lake Philip, & Co. .. 66, Victoria St., S.W. 1

Axles.

Beardmore W., & Co., Ltd. Glasgow
 Bessemer Henry, & Co., Ltd. Sheffield
 Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham
 Brown John, & Co., Ltd. Sheffield
 Firth Thos. & Sons, Ltd. Norfolk Works, Sheffield
 Glasgow Railway Engineering Co., Ltd. Govan, Glasgow
 Hadfields Limited Hecla Works, Sheffield
 Hurst Nelson & Co., Ltd. Motherwell, N.B.

Axles—Continued.

Scottish Stamping & Engineering Co., Ltd. .. Ayr, Scotland
 Vickers Limited Sheffield

Barges and Lighters (Iron and Steel).—(See also Launches and Yachts, Motor Boats, and Ship-builders.)

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow
 Chalmers Wm. & Co., Ltd. Rutberglen, Scotland
 Thornycroft J. I., & Co., Ltd. Southampton
 Vosper & Co., Ltd. .. Broad St., Portsmouth
 Werf Conrad Haarlem, Holland
 White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight

Barrows.

Ash, Joseph & Son .. Rea St. South, Birmingham
 Braby F., & Co., Ltd. 352, Euston Rd., N.W. 1
 Pollock, Macnab & Highgate Shettleston, Glasgow

Bars (Bright Steel).

Brunton W. N., & Son .. Musselburgh, Scotland
 Dunkerley C. C. & Co., Ltd. Store St., Manchester
 Dunlop & Ranken, Ltd. 9, Park Lane, Leeds
 Govan Shafting & Engineering Co., Ltd. Govan, Glasgow
 Halesowen Steel Co., Ltd. Halesowen, nr. Birmingham
 Hampton & Dean .. Clifton Works, Wednesbury
 Lee Arthur, & Sons, Ltd. Sheffield
 Wesson W., & Co., Ltd. Moxley, Wednesbury
 Winn, W. Martin, & Co. Station Works, Darlaston

Bars (Steel and Iron).

American Car & Foundry Co. 165, Broadway, New York, U.S.A.
 American Steel Export Co. Woolworth Building, New York, U.S.A.
 Beardmore Wm., & Co., Ltd. Glasgow
 Bessemer Henry, & Co., Ltd. Sheffield
 Briton Ferry Steel Co., Ltd. Briton Ferry, South Wales.
 Butterley Co., Ltd. Derby
 Columbia Steel & Engineering Co., Ltd. Bank Chambers, 329, High Holborn, W.C. 1
 Colville David, & Sons, Ltd. Glasgow
 Dunkerley C. C., & Co., Ltd. Store St., Manchester.
 Dunlop & Ranken, Ltd. 9, Park Lane, Leeds
 Glasgow Iron & Steel Co., Ltd. Wishaw
 Govan Shafting & Engineering Co., Ltd. Govan, Glasgow
 Hadfields Limited .. Hecla Works, Sheffield
 Halesowen Steel Co., Ltd. Halesowen, nr. Birmingham

Heath Robert, & Low Moor, Ltd.

Bradford, Yorkshire
 Lee Arthur, & Sons, Ltd. Sheffield
 Partington Steel & Iron Co., Ltd. Irlam, Manchester
 Steel Co. of Scotland, Ltd. 23, Royal Exchange Sq., Glasgow
 Stringer & Co. (Sheffield), Ltd. Sheffield
 Wesson W., & Co., Ltd. Moxley, Wednesbury
 Winn W. Martin, & Co. Station Works Darlaston

Bearings (Ball and Roller).—(See also Plummer Blocks.)

Broom & Wade, Ltd.	..	High Wycombe
Crofts (Engineers), Ltd.	..	Empire Works, Bradford
Empire Roller Bearings Co., Ltd.	..	13, Victoria St., S.W.1
Hoffmann Manufacturing Co., Ltd.	..	Chelmsford
Hyatt, Ltd.	..	56, Victoria St., S.W. 1
Northern Ball Bearings, Ltd.	..	115, Great Portland St., W.1
Ransome A. & Co., Ltd.	..	Stanley Works, Newark-on-Trent
Ransome Machinery Co. (1920), Ltd.	..	14-16, Grosvenor Gardens, S.W.1
Ransome & Marles Bearing Co., Ltd.	..	Newark-on-Trent
Rudge-Whitworth, Ltd.	..	Sparkhill, Birmingham
Skefko Ball Bearing Co., Ltd.	..	Skefko Works, Luton, Beds.

Bearings (Thrust and Footstep).

Broom & Wade, Ltd.	..	High Wycombe
Crofts (Engineers), Ltd.	..	Empire Works, Bradford
Michell Bearings, Ltd.	..	3, Central Buildings, Westminster, S.W.1
Vickers Ltd.	..	Vickers House, Broadway, S.W. 1

Belt Fasteners.

Stone J. B. & Co., Ltd.	..	135, Finsbury Pavement, E.C.
Thomas & Bishop	..	37, Tabernacle St., E.C.

Belt Treatment.

Thomas & Bishop	..	37, Tabernacle St., E.C.
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Bolting (Leather, Canvas, &c.).

Balderston & Co., Ltd.	..	201, St. Vincent St., Glasgow
Buck & Hickman, Ltd.	..	2 & 4, Whitechapel Rd., E.1
Cole Henry A. & Co., Ltd.	..	Coronet Works, Liverpool
Dawson James & Son, Ltd.	..	Lincoln
Dick R. & J., Ltd.	..	Greenhead Works, Glasgow
Hendry James	..	Bridgeton, Glasgow
Jardine J.	..	Deering St., Nottingham
Reddaway F. & Co., Ltd. (Came) Brand	..	Pendleton, Manchester
Tullis John, & Son, Ltd.	..	Glasgow
Walker Wm., & Sons, Ltd.	..	Bolton, Lancs.
Webb & Son (Combs.), Ltd.	..	Stowmarket
Wilcox W. H., & Co., Ltd.	..	32-38, Southwark St., S.E.

Bleaching Machinery.

Edmeston A. & Sons	..	Patricroft, nr. Manchester
Entwistle & Gass, Ltd.	..	Bolton

Blowers.—(See Engines—Blowing, Fans and Blowers and Ventilators.)**Boats.—(See Barges, &c., Motor Boats, and Ship-builders.)****Boiler Circulators.****Boiler Compositions.—(See Distnerustants.)****Boiler Coverings.—(See Non-conducting Compositions.)****Boiler Furnaces.**

Bennis Ed., & Co., Ltd.	..	Bolton
Brown John, & Co., Ltd.	..	Sheffield
Donkin Co., Ltd. (The Bryan)	..	Chesterfield
Dowson & Mason Gas Plant Co., Ltd.	..	Levenshulme, Manchester
Leeds Forge Co., Ltd.	..	Leeds

Boiler Inspection and Insurance Societies.

Manchester Steam Users' Association	..	9, Mount St., Manchester
National Boiler & General Insurance Co., Ltd.	..	St. Mary's Parsonage, Manchester

Boiler Manholes.

Barr, Thomson & Co., Ltd.	..	Kilmarnock, Scotland
M'Neil C., Ltd.	..	Glasgow
Piggott Thos., & Co., Ltd.	..	Springhill, Birmingham

Boiler Mountings.

Bailey Sir W.H. & Co., Ltd.	..	Salford, Manchester
Bell's United Asbestos Co., Ltd.	..	59½ Southwark St., S.E.
Billington & Newton, Ltd.	..	Longport, Staffordshire
Blakeborough J., & Sons, Ltd.	..	Brighouse, Yorks
Brundrit Joseph	..	14, Water St., Liverpool
Cockburns Limited	..	Cardonald, Glasgow
Crosby Valve & Engineering Co., Ltd.	..	41 & 42, Foley St., W.1
France & Morgan	..	Govan, Glasgow
Green & Boulding, Ltd.	..	162A, Dalston Lane, E.8
Hopkinson J., & Co., Ltd.	..	Huddersfield
Howden James, & Co., Ltd.	..	Scotland St., Glasgow
Lunken Company, Ltd.	..	35, Great Dover St., S.E.
National Boiler & General Insurance Co., Ltd.	..	St. Mary's Parsonage, Manchester
Piggott Thos., & Co., Ltd.	..	Springhill, Birmingham
Royles Limited	..	Irlam, near Manchester
Russell John, & Co., Ltd.	..	Birmingham
Smith Sydney, & Sons (Nottingham), Ltd.	..	Nottingham
Thornycroft J. I., & Co., Ltd.	..	Southampton
Turnbull Alex., & Co., Ltd.	..	Bishopbriggs, Glasgow
United Brassfounders & Engineers, Ltd.	..	Cornbrook, Manchester

Boiler Plates.—(See Plates, Iron & Steel.)**Boiler Sealing Appliances.**

Gilman, Frank	..	Wilders Drive, Warwick Rd., Birmingham
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Boiler Suits.—(See Overalls, &c.)**Boilers (Steam).—(See also Boilers—Water-tube.)**

Abbott & Co. (Newark), Ltd.	..	Newark-on-Trent
Adamson Daniel, & Co., Ltd.	..	Dukinfield

Boilers (Steam)—Continued.

Bellamy John, Ltd. .. Millwall, B.
 Bodley Bros. & Co. .. Exeter
 Burmeister & Wain, Ltd. .. Copenhagen, Denmark
 Chaplin, Alex., & Co. .. Govan, Glasgow
 Clarke, Chapman & Co., Ltd. .. Gateshead-on-Tyne
 Clayton Son & Co., Ltd. .. Hunslet, Leeds
 Cochran & Co., Annan, Ltd. .. Annan, N.B.
 Coltham H., & Sons .. Loughborough.
 Coltman Walter W., & Co. .. Central Boiler Works,
 Ltd. .. Loughborough
 Cradley Boiler Co., Ltd. .. Cradley Heath, Stafford-
 Craig A. F., & Co., Ltd. .. Paisley [shire.
 Dalglish A. & W. .. Pollokshaws, Glasgow
 Danks H. & T. (Netherton),
 Ltd. .. Netherton, Dudley
 Davey, Paxman & Co., Ltd. .. Colchester
 Davy Brothers, Ltd. .. Sheffield
 Day, Summers & Co., Ltd. .. Southampton
 Escher, Wyss & Co. .. 20, Grosvenor Gardens,
 S.W.1
 Farrar Boiler Works, Ltd. .. Lincoln
 Fowler J., & Co., Leeds, Ltd. .. Leeds
 Galloways Ltd. .. Manchester
 Garrett R., & Sons, Ltd. .. Leiston Works, Suffolk
 Grantham Boiler & Crank
 Co., Ltd. .. Grantham
 Hawthorn R. & W., Leslie
 & Co., Ltd. .. Newcastle-on-Tyne
 Hindley B. S., & Sons .. 11, Queen Victoria St.,
 B.C.
 Howden Overseas Trading } 105, St. Vincent St.,
 Co., Ltd. .. Glasgow
 Hudson Thomas, Ltd. .. Coatbridge, N.B.
 McKie & Baxter .. Govan, Glasgow
 Manlove, Alliot & Co., Ltd. .. Nottingham
 Marshall, Sons & Co., Ltd. .. Gainsborough
 Merryweather & Sons, Ltd. .. 63, Long Acre, W.C.
 Morris, Herbert, Ltd. .. Loughborough, England
 Mumford A. G., Ltd. .. Colchester
 North-Eastern Marine En- } Northumberland Works,
 gineering Co., Ltd. .. Wallsend-on-Tyne
 Penman & Co., Ltd. .. Strathclyde St., Glasgow
 Piggott Thos., & Co., Ltd. .. Birmingham
 Plenty & Sons, Ltd. .. Newbury, Berks.
 Ransomes, Sims & Jefferies,
 Ltd. .. Ipswich
 Robey & Co., Ltd. .. Lincoln
 Ross & Duncan .. Glasgow
 Rowan David, & Co. .. 231, Elliott St., Glasgow
 Ruston & Hornsby, Ltd. .. Sheaf Ironworks, Lincoln
 Smulders A. F. .. Schiedam, Holland
 Spencer-Bonecourt, Ltd. .. Parliament Mansions,
 Victoria St., S.W.1
 Sudron, Thomas & Co., Ltd. .. Stockton-on-Tees
 Sun Shipbuilding Co. .. 1428 So. Penn Square,
 Philadelphia, Pa.,
 U.S.A.
 Tangyes Limited .. Birmingham
 Thompson John, Ltd. .. Wolverhampton
 Thornycroft J. I., & Co., Ltd. .. Southampton
 Tinker, Shenton & Co., Ltd. .. Hyde, near Manchester
 Vickers, Ltd. .. Vickers House, Broad-
 way, S.W.1
 Portsmouth
 Vosper & Co., Ltd. .. Wallsend
 Wallend Slipway & Engin- } East Cowes, Isle of Wight
 eering Co., Ltd. .. Lymington
 White J. Samuel, & Co., Ltd. .. Lymington
 Wilson William, & Co. .. Glasgow
 Yarrow & Co., Ltd. .. Glasgow

Boilers (Water-tube).

British Niclausse Boiler } The Clock House, Arun
 Co., Ltd. .. del St., Strand, W.C. 2
 Clarke, Chapman & Co., Ltd. .. Gateshead-on-Tyne
 Clayton & Shuttleworth, } Lincoln
 Ltd. .. Colchester
 Davey, Paxman & Co., Ltd. .. Glasgow
 Howden James, & Co., Ltd. .. Coatbridge, N.B.
 Hudson Thomas, Ltd. .. 11, Queen Victoria St.,
 Knap, Conrad & Co., Ltd. .. E.C.4
 Marshall, Sons & Co., Ltd. .. Gainsborough
 Mumford A. G., Ltd. .. Colchester
 Normand Augustin .. 67, Rue du Perrey, Le
 Havre, France
 Penman & Co., Ltd. .. Strathclyde St., Glasgow
 Richardson, Westgarth & } Hartlepool
 Co., Ltd. .. Schiedam, Holland
 Smulders A. F. .. Parliament Mansions,
 Spencer-Bonecourt, Ltd. .. Victoria St., S.W. 1
 Thornycroft, J. I., & Co., Ltd. .. Southampton
 Vickers, Ltd. .. Barrow-in-Furness
 Vosper & Co., Ltd. .. Portsmouth
 White J. Samuel, & Co., Ltd. .. East Cowes, Isle of Wight
 Wilson William, & Co. .. Lilybank Boiler Works,
 Yarrow & Co., Ltd. .. Glasgow [Glasgow

Bolt and Nut-Making Machinery.

Platt Samuel, Ltd. .. Wednesbury

Bolts, Rivets, Nuts, Screws, &c.—(See also Lock Nuts & Nut-Locking Appliances.)

American Car & Foundry } 165, Broadway, New
 Co. .. York, U.S.A.
 Armstrong, Stevens & Son, } Whitall St., Birmingham
 Ltd. ..
 Bayliss, Jones & Bayliss, } Wolverhampton
 Ltd. .. Wednesbury
 Beebe A. ..
 Crossley H. & P., & } Mytholmroyd, Yorks.
 Ackroyd .. Stockton-on-Tees
 Gladstone, Ltd. .. Carpenter's Rd., Stratford,
 Grover & Co., Ltd. .. B.
 Hampton & Beebe, Ltd. .. Wednesbury, South
 Staffs.
 Hampton & Dean .. Clifton Works, Wednes-
 bury
 Kent Geo., Ltd. .. 199, High Holborn, W.C.1
 Kirby Banks Screw Co., Ltd. .. Meadow Lane, Leeds
 MacLellan P. & W., Ltd. .. 129, Trongate, Glasgow
 Marsden S., & Son, Ltd. .. London Rd., Manchester
 Mountford Fredk., Ltd. .. Old Cross St., Birming-
 ham
 Positive Lock Washer Co. .. 118-122, James Watt St.,
 Glasgow
 Wiley James, & Sons, Ltd. .. Darlaston
 Winn, W. Martin, & Co. .. Station Works, Darlaston

Boring and Sinking Tools and Machinery for Shafts and Wells—(See also Rock Drills, and Well Engineers.)

Bazanger J. & C., Ltd. .. Audrey House, Ely Place,
 E.C.1
 Burton Griffiths & Co., Ltd. .. 64, Vauxhall Bridge Rd.,
 S.W.1
 Isler C., & Co., Ltd. .. Bear Lane, Southwark
 St., S.E.1

Boring and Sinking Tools and Machinery for Shafts and Wells—Continued.

Kearns, H. W., & Co., Ltd. Broadheath, nr. Manchester
 Oil Well Supply Co. .. Dashwood House, E.C. 2.
 Stewarts & Lloyds, Ltd. .. 41, Oswald St., Glasgow

Bottles (Gas).—(See Gas Cylinders.)**Boxes.****Brake and Clutch Lining.**

Cresswells, Ltd. Bradford
 Ferodo, Ltd. Sovereign Mills, Chapel-en-le-Frith

Brakes (Railway), &c.

Barclay, Andrew, Sons & Co., Ltd. .. Caledonia Works, Kil-marnock
 Birmingham Railway Carriage & Wagon Co., Ltd. Smethwick, Birmingham
 Consolidated Brake & Engineering Co., Ltd. .. 15, Dean's Yard, Westminster, S.W. 1
 Davies & Metcalfe, Ltd. .. Romiley, nr. Manchester
 Elliston, Evans, & Jackson, Ltd. .. 13, Cross St., Finsbury, E.C. 2
 Ferodo, Ltd. Chapel-en-le-Frith
 Westinghouse Brake & Signal Co., Ltd. .. 82, York Rd., King's Cross, N.

Brake Solenoids.—(See Solenoids, Brakes.)**Brakes (Water).—(See Dynamometers.)****Brass Founders and Brass Finishers.**

Bailey Sir W. H., & Co., Ltd. Salford, Manchester
 Beckenham Foundry .. Beckenham, Kent
 Bell's United Asbestos Co., Ltd. .. 593, Southwark St., S.E. Longport, Staffordshire
 Billington & Newton, Ltd. ..
 Blundell's London Copper & Brass Works (1910), Ltd. West India Dock Rd., E. Exeter
 Bodley Brothers & Co. .. Manchester
 Broughton Copper Co., Ltd. ..
 Crosby Valve & Engineering Co., Ltd. .. 41 & 42, Foley St., W. 1
 Delta Metal Co., Ltd. .. East Greenwich, S.E.
 France & Morgan .. Govan, Glasgow
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.
 Kent G., Ltd. .. 199, High Holborn, W.C. 1
 Lunken Company, Ltd. .. 35, Great Dover St., S.E.
 McRobie, John, & Sons .. 94, Elliot St., Glasgow
 North-Eastern Marine Engineering Co., Ltd. .. Northumberland Works, Wallsend-on-Tyne
 Pegler Bros., & Co. (Glasgow), Ltd. .. Anderston, Glasgow
 Penney & Porter (Engineers), Ltd. .. Lincoln
 Piggott Thos., & Co., Ltd. Springhill, Birmingham
 Pulsometer Engineering Co., Ltd. .. Nine Elms Ironworks, Reading
 Russell John & Co., Ltd. .. Birmingham
 Steven & Struthers .. Kelvinhaugh, Glasgow

Brass Founders and Brass Finishers—Continued.

Stewart Duncan, & Co., Ltd. London Rd. Ironworks, Southampton [Glasgow
 Thornycroft J. I., & Co., Ltd. Southamptons
 United Brassfounders & Engineers, Ltd. .. Carnbrook, Manchester
 Wallsend Slipway & Engineering Co., Ltd. .. Wallsend

Brass Rods and Sections.

Bolton Thomas, & Sons, Ltd. .. 57, Bishopsgate, E.C. 2
 Delta Metal Co., Ltd. .. East Greenwich, S.E.
 McKechnie Brothers, Ltd. Rotton Park St., Birmingham

Brewery Plant.

Pontifex & Wood, Ltd. .. Union Foundry, Derby

Brick and Tile-Making Machinery.

Alexander, Herbert & Co., Ltd. .. Leeds
 Bodley Bros., & Co. .. Exeter
 Bradley & Craven, Ltd. .. Westgate Common Foundry, Wakefield
 Brightside Foundry & Eng. Co., Ltd. .. Sheffield
 Smidth F. L., & Co., Ltd. 20, Essex St., W.C. 2

Bridge Foundation Cylinders.—(See also Structural Engineering.)

Clay Cross Co., Ltd. .. Clay Cross, near Chesterfield
 Head, Wrightson & Co., Ltd. Thornaby-on-Tees

Bridges.—(See Structural Engineering.)**Briquette Machinery.**

Briquette Machinery, Ltd. Charnmouth St., Leeds
 Johnson Wm., & Sons (Leeds), Ltd. .. Armley, Leeds

Buffers.

Brown John, & Co., Ltd. .. Sheffield
 Cammell Laird & Co., Ltd. Sheffield
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.
 MacLellan P. & W., Ltd. 1209, Trongate, Glasgow
 Midland Railway Carriage and Wagon Co., Ltd. .. Midland Works, Birmingham
 Turton T. & Sons, Ltd. .. Sheaf Works, Sheffield

Buildings (Iron and Steel).—(See Structural Engineering.)**Buildings (Portable).**

Bath T., & Co. .. 18, Savoy St., W.C. 2

Buoys (Iron and Steel).

Bellamy John, Ltd. .. Millwall, B.
 Brown, Lenox & Co. (London), Ltd. .. Millwall, B.
 Robey & Co., Ltd. .. Lincoln

Burners (Gas).

Cabinets (Engineers').**Cable Laying Machinery.**

Clarke, Chapman & Co., } Victoria Works, Gates-
Ltd. } head-on-Tyne

Cables (Chain).

Wood Henry, & Co., Ltd. Saltney, near Chester

Cables (Electric Light, Telegraph and Telephone).

British Insulated & Helsby
Cables, Ltd. Prescott, Lancashire
Johnson & Phillips, Ltd. Charlton, S.E. 7
Siemens Bros. & Co., Ltd. Woolwich, S.E. 18
Smith H. W., & Co. (1920), } Central House, Kings-
Ltd. } way, W.C. 2

Canteen Equipment.

Brightside Foundry & En-
gineering Co., Ltd. Sheffield
Carron Company Carron, Stirlingshire

Capstans (Steam, Hydraulic & Electric).

Berry Henry, & Co., Ltd. Croydon Works, Leeds
Booth Joseph, & Bros., Ltd. Rodley, Leeds
Campbell & Calderwood Soho Engine W'ks, Paisley
Campbell & Isherwood,
Ltd. Bootle, nr. Liverpool
Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne
Napier Bros., Ltd. 130, Hyde Park Street,
Glasgow, W.
Sandycroft Limited Chester
Turnbull Alex., & Co., Ltd. Bishopbriggs, Glasgow
Ward H. W., & Co., Ltd. Birmingham

Carbons (Electric).**Carburettors and Vaporisers.**

Thornycroft J. I., & Co., Ltd. Basingstoke

Carriage (Railway) Builders.

American Car & Foundry } 165, Broadway, New
Co. } York, U.S.A.
Birmingham Railway
Carriage & Wagon Co.,
Ltd. Smethwick, Birmingham
Clayton Wagons, Ltd. Lincoln
Glasgow Railway Engineer-
ing Co., Ltd. Govan, Glasgow
Hurst, Nelson & Co., Ltd. Motherwell, N.B.
Leeds Forge Co., Ltd. Leeds
MacLellan P. & W., Ltd. 120, Trongate, Glasgow
Midland Railway Carriage
& Wagon Co., Ltd. Midland Works, Birming-
ham
Pickering R. Y., & Co., Ltd. Wishaw, nr. Glasgow

Carriage (Railway) Fittings.

Kaye Joseph, & Sons, Ltd. 93, High Holborn, W.C.

Carriage-Making Machinery.

Taylor & Challen, Ltd. Birmingham

Case-Hardening Materials.**Cask-Making Machinery.**

Ransome A., & Co., Ltd. Newark-on-Trent

Castings (Aluminium).

Beckenham Foundry Beckenham, Kent
Blundell's London Copper
& Brass Works (1910), Ltd. West India Dock Rd., E.
Heath & Co., Ltd. New Eltham, S.E. 9
Mills William, Ltd. Grove St., Birmingham

Castings (Die).

Atlas Metal & Alloys Co., } 52, Queen Victoria St.,
Ltd. } E.C.
Patent Die Casting Co.,
Ltd. 64, Strode Rd., N.W. 10

Castings (Iron).—(See also Pipe Founders.)

Alley & MacLellan, Ltd. Sentinel Works, Glasgow
Ashmore, Benson, Pease &
Co., Ltd. Stockton-on-Tees
Beardmore W., & Co., Ltd. Glasgow
Bodley Brothers & Co. Exeter
Brandon Bridge-Building }
Co., Ltd. } Brandon Works, Mother-
well
Broadbent Thos., & Sons,
Ltd. Huddersfield
Butterley Co., Ltd. Derby
Burmeister & Wain, Ltd. Copenhagen, Denmark
Carron Company Carron, Stirlingshire
Clay Cross Co., Ltd. Clay Cross, nr. Chester-
Lincoln
Clayton Wagons, Ltd. Bradford, Yorks
Crofts (Engineers), Ltd. Birmingham
Daniell S. A., Ltd. Bolton
Entwistle & Gass, Ltd. Kilmarnock, N.B.
Glenfield & Kennedy, Ltd. Langley Green, Birming-
ham
Ham, Baker & Co., Ltd. Worcester
Hardy & Padmore, Ltd. [ham
Harper A., Sons & Bean,
Ltd. Dudley, Worcestershire
Head, Wrightson & Co., Ltd. Thornaby-on-Tees
Heath Robert, & Low Moor,
Ltd. Bradford, Yorkshire
Herbert Alfred, Ltd. Coventry
Holding John, & Co., Ltd. Sheffield
Hollingdrake, H. & Son,
Ltd. Stockport
Hurst, Nelson & Co., Ltd. Motherwell, N.B.
Kent Geo., Ltd. 199, High Holborn,
W.C. 1
Kynoch, Ltd. Witton, Birmingham
Lilleshall Co., Ltd. Oakengates, Shropshire
Marsden H. R., Ltd. Soho Foundry, Leeds
Midland Railway Carriage
& Wagon Co., Ltd. Midland Works, Birming-
ham
Mills, William, Ltd. Grove St., Birmingham
North-Eastern Marine En-
gineering Co., Ltd. Northumberland Works,
Wallsend-on-Tyne
Northgate Ironworks Co. Bury St. Edmunds, Suff-
olk
Pegler Bros., & Co. (Glas-
gow), Ltd. Anderston, Glasgow
Penney & Porter (Engi-
neers), Ltd. Lincoln
Piggott Thos., & Co., Ltd. Springhill, Birmingham

Castings (Iron)—Continued.

Ransome A. & Co., Ltd.	Newark-on-Trent
Ransomes, Sims & Jefferies, Ltd.	Orwell Works, Ipswich
Robey & Co., Ltd.	Lincoln
Roe & Harrison, Ltd.	Derby
Rose, Downs & Thompson	Old Foundry, Hull
Russell S. & Sons	Leicester
Shaw W. & Co.	Middlesbro'-on-Tees
Société de Produits Métallurgiques	148, Bl. Haussmann, Paris (8e)
Summerson Thomas, & Sons, Ltd.	Darlington
Thornycroft J.I. & Co., Ltd.	Southampton
Tickle John, & Co., Ltd.	Providence Works, West Bromwich
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Varley John, & Co., Ltd.	St. Helens, Lancs.
Vickers Limited	Sheffield
Walford T. J.	Charles Henry St., Birmingham
Wallend Slipway & Engineering Co., Ltd.	Wallend
Wallwork Henry, & Co., Ltd.	Manchester

Castings (Malleable Iron).

Dominion Malleable, Ltd.	Etna Works, Smethwick
Fletcher George, & Co., Ltd.	Litchurch, Derby
Hadfields Limited	Hecia Works, Sheffield
Hale Thomas L., Ltd.	Tipton, Staffordshire
Le Bas Edward, & Co.	Dock House, Billiter St. Derby [B.C.]
Parker Foundry Co., Ltd.	Derby
Penney & Porter (Engineers), Ltd.	Lincoln
Tangyes Limited	Birmingham
Vickers Limited	Sheffield
Wallwork Henry, & Co., Ltd.	Manchester

Castings (Non-Ferrous).

Atlas Metal & Alloys Co., Ltd.	52, Queen Victoria St., E.C.
Bailey Sir W.H., & Co., Ltd.	Salford, Manchester
Beckenham Foundry	Beckenham, Kent
Bell's United Asbestos Co., Ltd.	594, Southwark St., S.E. Longport, Staffordshire
Billington & Newton, Ltd.	West India Dock Rd., E. Exeter
Blundell's London Copper & Brass Works (1910), Ltd.	Norwich
Bodley Brothers & Co.	Manchester
Boulton & Paul, Ltd.	Copenhagen, Denmark
Broughton Copper Co., Ltd.	Bradford, Yorks
Burmeister & Wain, Ltd.	
Crofts (Engineers), Ltd.	
Crosby Valve & Engineering Co., Ltd.	41 & 42, Foley St., W.1
Delta Metal Co., Ltd.	East Greenwich, S.E.
France & Morgan	Govan, Glasgow
Ham Baker & Co., Ltd.	Langley Green, Birmingham
Heath & Co., Ltd.	New Eltham, S.E. 9
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Kent Geo., Ltd.	199 High Holborn, W.C. 1
Lunken Company, Ltd.	35, Great Dover St., S.E.
McRobie John, & Sons	94, Elliot St., Glasgow
North-Eastern Marine Engineering Co., Ltd.	Northumberland Works, Wallsend-on-Tyne
Pegler Bros. & Co. (Glasgow), Ltd.	Andarston, Glasgow

Castings (Non-Ferrous)—Continued.

Penney & Porter (Engineers), Ltd.	Lincoln
Piggott Thos. & Co., Ltd.	Springhill, Birmingham
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Smith E. J., & Co.	Hay Mills, Birmingham
Steven & Struthers	Kelvinhaugh, Glasgow
Stewart Duncan, & Co., Ltd.	London Rd Ironworks, Glasgow
Taylor George (Brass Founders), Ltd.	Bolton, nr. Manchester
Thornycroft, J. I., & Co., Ltd.	Southampton
Wallend Slipway & Engineering Co., Ltd.	Wallsend

Castings (Steel).—(See also Manganese Steel Castings and Forgings.)

Allen Edgar, & Co., Ltd.	Sheffield
Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Beardmore W., & Co., Ltd.	Glasgow
Bessemer Henry, & Co., Ltd.	Sheffield
Brandon Bridge-Building Co., Ltd.	Brandon Works, Motherwell
Broadbent Thos., & Sons, Ltd.	Huddersfield
Brown John, & Co., Ltd.	Sheffield
Burmeister & Wain, Ltd.	Copenhagen, Denmark
Cammell Laird & Co., Ltd.	Sheffield
Clayton Wagons, Ltd.	Lincoln
Colville David, & Sons, Ltd.	Glasgow
Craig A. F., & Co., Ltd.	Paisley
Crofts (Engineers), Ltd.	Bradford, Yorks
Darlington Forge, Ltd.	Albert Hill, Darlington
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Ghion J.	Finsbury Pavement House, E.C. 2
Hadfields Limited	Hecia Works, Sheffield
Hale Thomas L., Ltd.	Tipton, Staffordshire
Henderson, John M., & Co.	King's Works, Aberdeen
Holcroft's Steel Foundry Co., Ltd.	Bilston, South Staffordshire
Holding John, & Co., Ltd.	Sheffield
Jackson P. R., & Co., Ltd.	Manchester
Jessop Wm., & Sons, Ltd.	Brightside Works, Sheffield
Jopling E., & Sons, Ltd.	Sunderland
Lloyd, F. H., & Co., Ltd.	James Bridge Steel Wks., nr. Wednesbury
Marsden H. R., Ltd.	Soho Foundry, Leeds
Mild Steel Castings, Ltd.	Tyseley, Birmingham
Netherlands Steel Works	Utrecht, Holland
Osborn Samuel, & Co., Ltd.	Clyde Steel Works, Sheffield
Parker Foundry Co., Ltd.	Derby [field]
Penny & Porter (Engineers), Ltd.	Lincoln
Shaw W., & Co.	Middlesbro'-on-Tees
Société de Produits Métallurgiques	148, Bl. Haussmann, Paris (8e)
Steel Co. of Scotland, Ltd.	23, Royal Exchange Sq., Glasgow
Stewarts & Lloyds, Ltd.	41, Oswald St., Glasgow
Summerson Thomas, & Sons, Ltd.	Darlington
Thwaites Brothers, Ltd.	Central House, Kingsway, W.C. 2
Vermot, Ch., Valère, Mabilbe & R. Pelgrims, Ltd.	83, Victoria St., S.W. 1
Vickers Limited	Sheffield

Cement (Iron, &c.).

British Steam Specialities, Ltd.	Bedford St., Leicester
Hawkins W. T., & Co.	Chapel Hill, Huddersfield
Hill W. W., Son & Wallace, Ltd.	Broughton, Manchester
House F., & Co.	68, Falkner, St., Liverpool
Hunt, Hedley S., & Co.	5, Farringdon Rd., E.C.1
Notcutt Walter, Ltd.	8, White St., E.C.

Cement (Portland).

Ironite Co., Ltd.	11, Old Queen Street, Westminster, S.W.1
Maxted & Knott	Burnett Avenue, Hull

Cement-Making Plant.

Allen Edgar, & Co., Ltd.	Sheffield
Aveling & Porter, Ltd.	Rochester
Fletcher Geo., & Co., Ltd.	Derby
Johnson Wm., & Sons (Leeds), Ltd.	Armley, Leeds
Smith F. L., & Co.	20, Essex St., W.C.2

Centrifugal Drying Machines.—(See also Cream Separators, and Hydro-Extractors.)

Broadbent T., & Sons, Ltd.	Chapel Hill, Huddersfield
Manlove, Allkott & Co., Ltd.	Nottingham
Pott, Cassels & Williamson	Motherwell, nr. Glasgow
Tullis D. & J., Ltd.	Glasgow
Watson, Laidlaw & Co., Ltd.	98, Dundas St. (South), Glasgow

Cesspool Exhauster.

Merryweather & Sons, Ltd.	Greenwich Rd., S.E.
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Chains (Gearing).

Brampton Bros., Ltd.	Birmingham
Coventry Chain Co., Ltd.	Coventry

Chemical Works (Plant for).

Alley & MacLellan, L.d.	Sentinel Works, Glasgow
Dowson & Mason Gas Plant Co., Ltd.	Levenshulme, Manchester
Farrar Boiler Works, Ltd.	Lincoln
Guthrie & Co.	St. James's Chambers, Accrington

Manlove, Allkott & Co., Ltd.	Nottingham
Piggott Thos., & Co., Ltd.	Birmingham
Power Gas Corporation, Ltd.	Stockton-on-Tees
Thompson John (Wolverhampton), Ltd.	Wolverhampton

Chimneys.

Adamson Daniel, & Co., Ltd.	Dukinfield, Manchester
Bellamy John, Ltd.	Millwall, E.
Clayton Son, & Co., Ltd.	Hunslet, Leeds
Custodis, Ltd.	119, Victoria St., S.W.1
Lysaght John, Ltd.	St. Vincent Ironworks, Bristol

Steel Pipe Company, Ltd.	Kirkcaldy, N.B.
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Chucks.—(See also Machine Tools.)

Burton, Griffiths & Co., Ltd.	64 to 70, Vauxhall Bridge Rd., S.W.1
Forbes Bros.	Doe St., Birmingham
Herbert, Alfred, Ltd.	Coventry
Jacobs Manufacturing Co.	Hartford, Conn., U.S.A.
Jones A. A., & Shipman, Ltd.	East Park Rd., Leicester
Notcutt, Walter P., Ltd.	8, White St., Moorfields, E.C.2
Rapid Magnetising Machine Co., Ltd.	52, Lombard St., Birmingham
St. George's Engineering Co.	Birmingham
Skinner Chuck Co.	139, Queen Victoria St., E.C.4
Taylor Charles (Birmingham), Ltd.	Bartholomew Sq., Birmingham
Wharton H., Ltd.	Reddish, Stockport

Clocks.—(See Watches & Clocks.)**Cloth Finishing Machinery.**

Clutches.	
Bridge David, & Co., Ltd.	Castleton, Manchester
British Hele-Shaw Patent Clutch Co., Ltd.	Oldham
Broadbent Thos., & Sons, Ltd.	Chapel Hill, Huddersfield
Crofts (Engineers), Ltd.	Empire Works, Bradford
Edmeston Archibald, & Sons, Ltd.	Patricroft, nr. Manchester
Entwistle & Gass, Ltd.	Bolton
Ferodo, Ltd.	Chapel-en-le-Frith
Igranic Electric Co., Ltd.	147, Queen Victoria St., E.C.
Reddaway F. & Co., Ltd.	Pendleton, Manchester
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Wigglesworth F., & Co., Ltd.	Clutch Works, Shipley, nr. Bradford

Coal Handling Plant.—(See also Conveyors & Elevators.)

Allen Edgar, & Co., Ltd.	Sheffield
Dempster Robert, & Sons, Ltd.	Elland, Yorkshire
Fletcher Malleable Foundries, Ltd.	Litchurch Lane, Derby
Fraser & Chalmers Engineering Works	Erith, Kent
General Electric Co., Ltd.	Magnet House, Kingsway, W.C.2
Head, Wrightson & Co., Ltd.	Thornaby-on-Tees
Jenkins W. J., & Co., Ltd.	Beehive Works, Retford
Lidgerwood Ltd.	Friars House, New Broad St., E.C.
Mitchell Conveyor & Transporter Co., Ltd.	45-50, Holborn Viaduct, E.C.1
Paterson Hughes Engineering Co., Ltd.	Charlotte Lane, Glasgow
Reddaway F., & Co., Ltd.	Pendleton, Manchester
Weri Conrad	Haarlem, Holland

Coal (Pulverising & Drying Plant).

Fuller-Lehigh Co.	Fullerton, Pa., U.S.A.
Pratchitt Brothers	Denton Iron Works, Carlisle

Cocks.—(See Valves, Gas, Steam, Water, &c.)

Cells (Pipe and Tube)

Millwall Engineering Co.,
Ltd. 21, Pantou St., S.W.1

Coining Machinery.

Taylor & Challen, Ltd. .. Birmingham

Coke Rams.

Ransomes & Rapier, Ltd. Ipswich

Colliery Plant.—(See also Haulage Plant, Mining Machinery, and Pumps.)

Alley & MacLellan, Ltd. .. Sentinel Works, Glasgow
Barclay Andrew Sons & Co., Ltd. .. Caledonia Works, Kilmarnock
Bennis Ed., & Co. Ltd. .. Bolton
Brown Hoisting Machinery Co. .. Cleveland, Ohio, U.S.A.
Carron Company .. Carron, Stirlingshire
Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield
Clayton Son, & Co., Ltd. .. Hunslet, Leeds
Fletcher George & Co., Ltd. Litchurch, Derby
Hadfields Limited .. Hecla Works, Sheffield
Head, Wrightson & Co., Ltd. Thornaby-on-Tees
Heath Robert, & Low Moor, Ltd. .. Bradford, Yorkshire
Heenan & Froude, Ltd. .. Worcester Eng. Wks, Worcester
Lidgerwood Ltd. .. Friars House, New Broad St., E.C.
Lilleshall Co., Ltd. .. Oakengates, Shropshire
Reddaway F., & Co., Ltd. Pendleton, Manchester
Robey & Co., Ltd. .. Lincoln
Ruston & Hornsby, Ltd. Grantham
Sandycroft Limited .. Chester

Colliery Proprietors.

Brown John, & Co., Ltd. .. Sheffield
Clay Cross Co., Ltd. .. Clay Cross, nr. Chesterfield
Glasgow Iron & Steel Co., Ltd. Wishaw Iron & Steel Works, Wishaw

Compasses.

Negretti & Zambra .. 38, Holborn Viaduct, E.C.

Composition for Covering Boilers, &c.—(See Non-condensing Compositions.)**Compressed Gases (Bottles and Fittings for).**

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.

Concrete Blocks and Slabs (Machines for Making).**Concrete Mixers.—(See also Mixers.)**

Hardy & Padmore, Ltd. .. Worcester
Koehring Company .. Milwaukee, Wisconsin, U.S.A.
Ransomes Machinery Co. } 14 & 16, Grosvenor Gar-
(1920), Ltd. .. dens, Westminster, S.W.
Stothert & Pitt, Ltd. .. Bath

Concrete (Plain and Reinforced).

Expanded Metal Co., Ltd. York Mansions, York St., Westminster, S.W.
Holst K., & Co. .. 1, Victoria St., S.W.1
Stewart, J. & W. .. 12, Berkeley St., W.1

Condensers (Evaporative).**Condensers (Fresh Water).—(See Distilling (Water) Apparatus.)****Condensers (for Steam Engines).**

Adamson Daniel, & Co., Ltd. Dukinfield
Allen W.H., Sons, & Co., Ltd. Bedford
Belliss & Morcom, Ltd. .. Ledsam St. Works, Birmingham
Caird & Rayner .. 777, Commercial Rd., E.
Campbell & Calderwood, .. Soho Works, Paisley, Scotland
Carruthers J. H., & Co., Ltd. Polmadie Ironworks, Glasgow
Clyne Engineering Co. } 94, Market St., Manchester
Ltd. ..
Cole, Marchant & Morley, Ltd. Bradford
De Laval Steam Turbine } 150, Southampton Row, W.C.1
Co. ..
Escher, Wyss & Co. .. 20, Grosvenor Gardens, S.W.1
Friedenthals, Ltd. .. Preston
Hall J. P., & Sons, Ltd. .. Peterborough
Harris Patent Feed-Water } 24, Grainger St. West,
Filter (1910), Ltd. .. Newcastle-on-Tyne
Hayward Tyler & Co., Ltd. 99, Queen Victoria St., [E.C.
Hick, Hargreaves & Co., Ltd. .. Soho Works, Bolton
Ingersoll-Rand Co., Ltd. 165, Queen Victoria St., E.C.

Metropolitan-Vickers } Trafford Park, Man-
Electrical Co., Ltd. .. chester
Mirlees Watson Co., Ltd. Scotland St., Glasgow
Newton, Bean & Mitchell .. Dudley Hill, Bradford
Parsons C. A., & Co., Ltd. Newcastle-on-Tyne
Piggott Thos., & Co., Ltd. Springhill, Birmingham
Premier Cooler & Engineer- } Station Works, Shalford,
ing Co., Ltd. .. nr. Guildford, Surrey
Pulsometer Engineering } Nine Elms Ironworks,
Co., Ltd. .. Reading
Richardsons, Westgarth and Co., Ltd. .. Hartlepool
Robey & Co., Ltd. .. Lincoln
Royles Limited .. Irlam, near Manchester
Thornycroft J.I., & Co., Ltd. Southampton
Vickers, Ltd. .. Barrow-in-Furness
Weir G. & J., Ltd. .. Cathcart, Glasgow
Worthington-Simpson, Ltd. Queen's House, Kingsway, W.C.2

Wright's Forge & Engineer- ing Co., Ltd. .. Tipton, Staffs.

Constructional.—(See Structural Engineering.)**Contractors.**

English Electric Co., Ltd. Queen's House, Kingsway, W.C.2

Controllers (Electrical).—(See Motor Starters.)**Conveyors and Elevators.—(See also Coal Handling Plant.)**

Allen Edgar, & Co., Ltd. .. Sheffield
Barry Henry, & Cook, Ltd. Aberdeen
Bennis Ed., & Co., Ltd. .. Bolton
Boby, Robert, Ltd. .. Bury St. Edmunds, Suffolk

British Ropeway Engineer- ing Co., Ltd. .. 7, Mincing Lane, E.C.3

Conveyors and Elevators.—Continued.

Brown Hoisting Machinery Co.	Cleveland, Ohio, U.S.A.
Bullivant & Co., Ltd.	72, Mark Lane, E.C.
Christy & Norris, Ltd.	Chelmsford, Essex
Conveyor & Elevator Co., Ltd.	Accrington, Lancashire
Dempster Robert, & Sons, Ltd.	Elland, Yorks
Ewart Chainbelt Co., Ltd.	Derby
Figge, Ltd.	Haarlem, Holland
Fletcher George, & Co., Ltd.	Litchurch, Derby
Fletcher Malleable Foundries, Ltd.	Litchurch Lane, Derby
Fraser & Chalmers Engineering Works	Erith, Kent
Gibbons Bros., Ltd.	Dudley, Worc.
Head, Wrightson & Co., Ltd.	Thornaby-on-Tees
Heenan & Froude, Ltd.	Worcester
Hill & Co. (Engineers), Ltd.	72 & 74, Victoria St., S.W.1.
Jeffrey Manufacturing Co.	Columbus, Ohio, U.S.A.
Jenkins W. J., & Co., Ltd.	Beehive Works, Retford
Lidgerwood Ltd.	Friars House, New Broad St., E.C.
Marsden H. R., Ltd.	Soho Foundry, Leeds
Mitchell Conveyor & Transporter Co., Ltd.	45-50, Holborn Viaduct, E.C.1.
Paterson Hughes Engineering Co., Ltd.	Charlotte Lane, Glasgow.
Pott, Cassels & Williamson Ransomes Machinery Co. (1920), Ltd.	Motherwell nr. Glasgow
Reddaway F., & Co., Ltd.	14 & 16, Grosvenor Gardens, Westminster, S.W.
Ritchie-Atlas Engineering Co.	Pendleton, Manchester
Rownson, Drew & Clydesdale, Ltd.	Atlas Works, Temple, Glasgow.
Smith F. L., & Co., Ltd.	225, Upper Thames St., E.C.4
	20, Essex St., W.C. 2

Cooking Plant.

Carron Company	Carron, Stirlingshire
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Cooling Towers.—(See Water Cooling Plant.)**Copper Ingots, Bars and Sheets.**

Bolton Thomas, & Sons, Ltd.	57, Bishopsgate, E.C.2.
Broughton Copper Co., Ltd.	Manchester

Coppersmiths.

Birmingham Battery and Metal Co.	Birmingham
Blundell's London Copper & Brass Works (1910) Ltd.	West India Dock Rd., E.
Delta Metal Co., Ltd.	East Greenwich, S.B.
North-Eastern Marine Engineering Co., Ltd.	Northumberland Works, Wallsend-on-Tyne

Copying Presses.

Daniell S. A., Ltd.	Edward St., Parade, Birmingham
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Corrugated Boiler Furnaces.

Leeds Forge Co., Ltd.	Leeds
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Cotton Presses.—(See also Hydraulic Presses.)

Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Coles H. J., Ltd.	London Crane Works, Derby
Fawcett, Preston & Co., Ltd.	17, York St., Liverpool
Piggott Thos., & Co., Ltd.	Birmingham
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Stewart Duncan, & Co., Ltd.	London Rd. Ironworks, Glasgow
Tangyes, Ltd.	Birmingham

Counters for Revolutions.

Avery W. & T., Ltd.	Soho Foundry, Birmingham
Budenberg Gauge Co., Ltd.	Broadheath, nr. Manchester

Couplings (Railway).

Birmingham Railway Carriage & Wagon Co., Ltd.	Smethwick, Birmingham
Gibbins R. C., & Co.	Berkley St., Birmingham
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Weldless Chains, Ltd.	Coatbridge

Couplings (Shaft).

Electro-Metals, Ltd.	Imperial Buildings, 56, Kingsway, W.C. 2
Hampton & Beebe, Ltd.	Wednesbury, South Staffs.
Jardine, J.	Deering St., Nottingham
London Electric Firm	Brighton Rd., Croydon
Newton, Bean & Mitchell	Dudley Hill, Bradford
Platt Samuel, Ltd.	Wednesbury
Power Plant Co., Ltd.	West Drayton, Middx.
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Taylor & Challen, Ltd.	Birmingham
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Wigglesworth F., & Co., Ltd.	Clutch Works, Shipley, near Bradford

Cranes, Hoisting Machines, Travellers, Winches, &c.—(See also Lifts and Hoisting Machinery.)

Anderson-Grice Co., Ltd.	Carnoustie, Scotland
Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Bedford Engineering Co.	Bedford, England
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Booth Joseph, & Bros., Ltd.	Rodley, Leeds
Brecknell, Munro & Rogers, Ltd.	Thrissell St., Bristol
British Electric Plant Co., Ltd.	66, Carrick St., Glasgow
British Steel & Iron Exporters, Ltd.	22 & 23, Laurence Pountney Lane, E.C.4.
Broadbent Thos., & Sons, Ltd.	Chapel Hill, Huddersfield
Brown Hoisting Machinery Co.	Cleveland, Ohio, U.S.A.
Browning Co.	Cleveland, Ohio, U.S.A.
Butler Samuel, & Co., Ltd.	Stanningley, nr. Leeds
Campbell & Isherwood, Ltd.	Bootle, nr. Liverpool
Chambers, Scott & Co., Ltd.	Motherwell
Chaplin Alex., & Co., Ltd.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Coles H. J., Ltd.	London Crane Works Derby

Cranes, Hoisting Machines, Travellers, Winches, &c.—
Continued.

Cowans, Sheldon & Co., Ltd.	Carlisle
Craven Brothers (Manchester), Ltd.	Vauxhall Wks., Reddish, Stockport
East Ferry Road Engineering Works Co., Ltd.	Millwall, B.
Figue, Ltd.	Haarlem, Holland
Gibbins R. C. & Co.	Berkley St., Birmingham
Grafton & Co.	Bedford
Grieve John, & Co.	Motherwell, Scotland
Hamworthy Engineering Co., Ltd.	76, Victoria St., S.W.1
Henderson, John M., & Co.	Aberdeen, Scotland
Heywood S. H., & Co., Ltd.	Reddish
Higginbottom & Mannock, Ltd.	West Gorton, Manchester
Hill & Co. (Engineers), Ltd.	72 & 74, Victoria St., S.W.1
Holt & Willetts	Lion Works, Cradley Heath
Horseley Bridge & Engineering Co., Ltd.	Tipton, Staffordshire
Jack Alexander, & Co. Ltd.	Motherwell
Kloos F., & Sons	20, Copthall Avenue, E.C.2
Lidgerwood Ltd.	Friars House, New Broad St., E.C.
Marshall, Fleming, & Co., Ltd.	Motherwell, N.B.
Middleton Bros.	Pudsey, Leeds
Morris Herbert, Ltd.	Loughborough, England
Musgrave Bros.	Leeds
Napier Brothers, Ltd.	130 Hyde Park St., Glasgow, W.
Northern Crane Works, Ltd.	Walkerville, Ontario, Canada
Northern Engineering Works	Detroit, Mich., U.S.A.
Paterson Hughes Engineering Co., Ltd.	Charlotte Lane, Glasgow.
Priestman Brothers, Ltd.	Holderness Fndry, Hull
Ransomes & Rapier, Ltd.	Ipswich
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Ritchie-Atlas Engineering Co.	Atlas Works, Temple, Glasgow.
Rose, Downs & Thompson, Ltd.	Old Foundry, Hull
Royce Limited	Trafford Pk., Manchester
Russell George, & Co., Ltd.	Motherwell, nr. Glasgow
Shepherd Electric Crane & Hoist Co.	Montour Falls, New York, U.S.A.
Smith Thos., & Sons (Rodley), Ltd.	Rodley, nr. Leeds
Smulders A. F.	Schiedam, Holland
Stewart Duncan & Co., Ltd.	London Rd. Ironworks, Glasgow
Stothert & Pitt, Ltd.	Bath
Tangyes Limited	Birmingham
Taylor & Hubbard	Leicester
Universal Machinery Corporation, Ltd.	326, Old St., E.C.2
Vaughan Crane Co., Ltd.	Openshaw, Manchester
Waygood-Otis, Ltd.	Falmouth Rd., S.E.
Wellman Smith Owen Engineering Corporation, Ltd.	King's House, Kingsway, W.C.2
Werf Conrad	Haarlem, Holland
Wharton H., Ltd.	Reddish, Stockport
Willetts Charles, Junr., Ltd.	Cradley Heath, Staffs.

Cranes, Hoisting Machines, Travellers, Winches, &c.—
Continued.

Wilson John H., & Co.	Dock House, Birkenhead
Wonham, Bates & Goode, Inc.	3, London Wall Buildings, E.C.
Youngs	Ryland St. Works, Birmingham

Crank Axles.

Bessemer Henry, & Co., Ltd.	Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Hadfields Limited	Hecla Works, Sheffield
Vickers Limited	Sheffield

Crankshafts.

Beardmore Wm., & Co., Ltd.	Glasgow
Bessemer Hy., & Co., Ltd.	Sheffield
Brown John, & Co., Ltd.	Sheffield
Cammell Laird & Co., Ltd.	Sheffield
Clarke's Crank & Forge Co., Ltd.	Lincoln
Dennystown Forge Co.	Dumbarton
Fife Forge Co., Ltd.	Kirkcaldy, Scotland
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Hadfields Limited	Hecla Works, Sheffield
Jessop Wm., & Sons	Sheffield
McNeil C., Ltd.	Glasgow
Thornycroft J. I., & Co., Ltd.	Southampton
Vickers Limited	Sheffield

Cream Separators.

Pott, Cassels & Williamson	Motherwell, nr. Glasgow
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Crucibles.**Crushing Machinery.—***(See Disintegrators, Grinding Mills, and Stonebreakers.)***Cupolas.**

Alldays & Onions, Ltd.	Birmingham
Constructional Engineering Co. Ltd.	Charles Henry St., Birmingham
Incandescent Heat Co., Ltd.	Smethwick, Birmingham.
Wonham, Bates & Goode, Inc.	3, London Wall Buildings, E.C.

Cutting-off Machines.

Clifton & Baird, Ltd.	Johnstone, Scotland
Taylor Charles (Birmingham), Ltd.	Bartholomew Sq., Birmingham
Winn Charles, & Co.	Granville Place, Birmingham

Destructors.

Dowson & Mason Gas Plant Co.	Levenshulme, Manchester
Hardy & Padmore, Ltd.	Worcester
Heenan & Froude, Ltd.	Destructor Dept., Worcester Engineering Works, Worcester
Manlove, Alliott & Co., Ltd.	Nottingham
Meldrums Limited	Timperley, nr. Manches'r

Dials.

Cooke James, & Son	8 & 9, Wrentham St., Birmingham
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Die Sinks.

Disinfectants.

Bartoline (Hull), Ltd. .. Myton Place, Hull
 Bell's United Asbestos Co., Ltd. .. 59½, Southwark St., S.B.
 Tranter W. J., Ltd. .. Tipton, Staffordshire

Disinfectors.

Manlove, Alliot & Co., Ltd. Nottingham
 Tullis D. & J., Ltd. .. Kilbowie Ironworks, nr. Glasgow

Disintegrators.—(See also *Grinding Mills, Ore Crushing, and Stonebreakers.*)

Allen Edgar, & Co., Ltd. Sheffield
 Bradley Pulverizer Co. .. 37, Walbrook, B.C.
 Christy & Norris, Ltd. .. Chelmsford, Essex
 Fuller-Lehigh Co. .. Fullerton, Pa., U.S.A.
 Goodwin, Barsby & Co. .. Leicester
 Hadfields Limited .. Hecla Works, Sheffield
 Hardy & Padmore Ltd. .. Worcester
 Johnson Wm., & Sons (Leeds), Ltd. .. Armley, Leeds
 Marsden H. R., Ltd. .. Sobo Foundry, Leeds
 Patent Lightning Crusher Co., Ltd. .. 14a, Rosebery Av., Gray's Inn Rd., E.C.
 Pratchitt Bros. .. Denton Ironwks, Carlisle
 Smith, F. L., & Co., Ltd. 20, Essex St., W.C. 2
 Sturtevant Engineering Co., Ltd. .. 147, Queen Victoria St., E.C.
 Wood Hugh, & Co., Ltd. .. 65, Fenchurch St., E.C.

Distillery Plant.

Dowson & Mason Gas Plant Co., Ltd. .. Levenshulme, Manchester
 Fawcett, Preston & Co., Ltd. Liverpool
 Mirrieles Watson Co., Ltd. Scotland St., Glasgow
 Pontifex & Wood, Ltd. .. Union Foundry, Derby

Distilling (Water) Apparatus.—(See also *Evaporators.*)

Caird & Rayner .. 777, Commercial Rd., E.
 Chaplin Alex., & Co. .. Govan, Glasgow
 Grison-Russell Co. .. 95, West St., New York, U.S.A.
 Kirkaldy John, Ltd. .. 101, Leadenhall St., B.C. 3
 Mirrieles Watson Co., Ltd. Scotland St., Glasgow
 Royles Limited .. Irlam, near Manchester

Diving Apparatus.

Siebe, Gorman & Co., Ltd. Neptune Works, S.E.

Docks (Graving, &c.).

Humber Graving Dock & Engineering Co., Ltd. .. Kings Dock, Immingham.

Doors (Watertight).

Stone J., & Co., Ltd. .. Deptford, S.E.

Draught.—(See *Forced and Induced Draught.*)**Draw Benches.**

Platt Samuel, Ltd. .. Wednesbury

Drawing Instruments, &c.

American Lead Pencil Co. 173 & 175, Lower Clapton Rd., N.E.
 Dargue Brothers, Ltd. .. Halifax, England
 Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester
 Hall B. J., & Co., Ltd. .. Chalfont Hse., Gt. Peter St., Westminster, S.W.
 Negretti & Zambra .. 38, Holborn Viaduct, E.C.
 Thornton A. G., Ltd. .. 13, King St. West, Manchester
 United Metal Engraving Co., Ltd. .. 40, High Bridge, Newcastle-on-Tyne

Drawings, Tracings, &c.—(See also *Photography & Materials, &c.*)

Halden J., & Co., Ltd. .. 8, Albert Sq., Manchester

Dredgers (Section).

Ferguson Brothers (Port Glasgow), Ltd. .. Newark Works, Port Glasgow
 Gwynnes Engineering Co., Ltd. .. Hammersmith Ironwks., W.
 Lobnitz & Co., Ltd. .. Renfrew, Scotland
 Owen & Crisp .. 64, Basinghall St., E.C.2
 Simons W., & Co., Ltd. .. Renfrew, Scotland

Dredging Machines.

Bucyrus Co. .. 13, Victoria St., Westminster, S.W.
 Coles H. J., Ltd. .. London Crane Works, Derby

Ferguson Brothers (Port Glasgow), Ltd. .. Newark Works, Port Glasgow
 Fleming & Ferguson, Ltd. Paisley, N.B.

Goodacre Wm., & Sons, Ltd. .. Victoria Docks, E.16
 Gwynnes Engineering Co., Ltd. .. Hammersmith Ironwks., W.
 Hadfields Limited .. Hecla Works, Sheffield
 Kloos F., & Sons .. 20, Cophall Avenue, E.C.2

Lobnitz & Co., Ltd. .. Renfrew, Scotland
 Priestman Bros., Ltd. .. Holderness Foundry, Hull
 Ritchie-Atlas Engineering Co. .. Atlas Works, Temple, Glasgow

Rose, Downs & Thompson, Ltd. .. Old Foundry, Hull

Simons W., & Co., Ltd. .. Renfrew, N.B.
 Smulders A. F. .. Schiedam, Holland

Stothert & Pitt, Ltd. .. Bath
 Vickers Limited .. Barrow-in-Furness

Werf Conrad .. Haarlem, Holland
 Western Wheeled Scraper Co. .. Aurora, Illinois, U.S.A.

Westwood, Joseph, & Co., Ltd. .. Napier Yard, Millwall, E.

Whitaker D. .. 1, Union St., Leicester

Drilling Machines.—(See *Machine Tools.*)**Drills (Twist).**

Armstrong, Sir W. G., White & Co., Ltd. .. 8, Great George St., S.W. 1
 Burton, Griffiths & Co., Ltd. .. 64, Vauxhall Bridge Rd., S.W. 1
 Churchill Chas., & Co., Ltd. .. 9 to 15, Leonard St., E.C.
 Firth Thos., & Sons, Ltd. .. Sheffield

Drop Forgings.—(See *Forgings—Drop.*)

Drop Hammers.—(See Hammers—Drop.)**Drums.—(See Tanks and Drums.)****Drying Apparatus.—(See also Centrifugal Drying Machines, and Hydro-Extractors.)**

Baker Joseph, Sons & Perkins, Ltd. .. 21, College Hill, E.C.4
 Electro-Metals, Ltd. .. Imperial Buildings, 56, Kingsway, W.C.2

Keith James, & Blackman Co., Ltd. } 27, Farringdon Avenue, B.C.
 Manlove, Allott & Co., Ltd. } Nottingham
 Musgrave & Co., Ltd. .. St. Ann's Ironworks, Belfast

Simon-Carves, Ltd. .. Manchester
 Smidth, F. L., & Co., Ltd. 20, Essex St., W.C. 2
 Sturtevant Engineering Co., Ltd. } 147, Queen Victoria St., E.C.

Dust Collectors.—(Mills, Factories, Breweries, &c.)
 British Vacuum Cleaner Co., Ltd. } Dept. 5/20, Parson's Green Lane, S.W.
 Keith James, & Blackman Co., Ltd. } 27, Farringdon Av., E.C.
 Ransome A., & Co., Ltd. } Stanley Wks., Newark-on-Trent

Simon-Carves, Ltd. .. Manchester
 Sturtevant Engineering Co., Ltd. } 147, Queen Victoria St., E.C.
 Sutcliffe Ventilating & Drying Co., Ltd. .. Manchester

Dust Shields for Bearings.
 Dynamometers.

Dobbie McInnes & Clyde, Ltd. .. Glasgow
 Heenan & Froude, Ltd. .. Worcester

Dynamo.—(See Electric Lighting and Power Plant.)
Ebonite.—(See also India-rubber Goods and Woodils for Steam, &c., Packings.)

Reddaway F., & Co., Ltd. .. Pendleton, Manchester

Economisers (Fuel).
 Clay Cross Co., Ltd. .. Clay Cross, near Chesterfield

Green E., & Sons, Ltd. .. Wakefield
 Thompson John (Wolverhampton), Ltd. .. Wolverhampton

Electric Accumulators.—(See Accumulators.)
Electric Bells and Signals.

Bailey Sir W. H., & Co., Ltd. Salford, Manchester

Electric Cables.—(See also Telegraph Wire and Cables.)
 British Insulated & Helsby Cables, Ltd. .. Prescott, Lancashire

Electric Lighting and Power Plant.—(See also Motor Starters & Accessories, and Switchboards & Accessories.)

Allen W.H., Sons & Co., Ltd. Bedford
 Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
 Brecknell, Munro & Rogers, Ltd. .. Thrissell St., Bristol

Electric Lighting and Power Plant—Continued.

British Electric Plant Co., Ltd. 66, Carrick St., Glasgow

British Insulated & Helsby Cables, Ltd. Prescott, Lancashire

British Thomson-Houston Co., Ltd. Rugby
 Chester

Brook, Hirst & Co., Ltd. Bootle, nr. Liverpool
 Campbell & Isherwood, Ltd. Gateshead-on-Tyne

Clarke, Chapman & Co., Ltd. 25, Bedford Sq., S.W.1
 Electric Lamp Manufacturers' Association of Great Britain, Ltd. .. Openshaw, Manchester

Electromotors, Ltd. .. Queen's House, Kingsway, W.C. 2
 English Electric Co., Ltd. Hollinwood, Lancashire

Ferranti, Ltd. Leeds
 Fowler J., & Co. (Leeds), Ltd. Magnet House, Kingsway, W.C. 2
 General Electric Co., Ltd. Werneth, Oldham

Hall J. P., & Co., Ltd. 76, Victoria St., S.W.1
 Hamworthy Engineering Co., Ltd. Kirkstall Rd., Leeds

Hartnell Wilson, & Co., Ltd. Sand Pits, Birmingham
 Higgs Bros. .. Newcastle-upon-Tyne

Holmes J. H., & Co. 12, Carteret St., S.W.1
 Holophane, Ltd. .. Scotland St., Glasgow
 Howden James, & Co., Ltd. Charlton, S.E. 7

Johnson & Phillips, Ltd. Trafford Pk., Manchester
 Lancashire Dynamo & Motor Co., Ltd. .. Netherlee Rd., Cathcart

Macfarlane Engineering Co., Ltd. Glasgow
 Mavor & Coulson, Ltd. .. Trafford Park Manchester

Metropolitan-Vickers Electrical Co., Ltd. .. Newcastle-on-Tyne
 Parsons C. A., & Co., Ltd. Levensall Works, Dumbarton

Paul Matthew, & Co., Ltd. Rees Roturbo Manufacturing Co., Ltd. .. Wolverhampton

Royce Ltd. .. Trafford Park, Manchester
 Sandycroft, Ltd. .. Chester

Sturtevant Engineering Co., Ltd. 147, Queen Victoria St., B.C.
 Swedish General Electric, Ltd. 5, Chancery Lane, W.C.2

Thornycroft J. I., & Co., Ltd. Smith Square, Westminster, S.W.1
 Westinghouse Electric International Co. .. 2, Norfolk St., Strand, W.C.2

Electric Motors.
 Allen W. H., Son & Co., Ltd. Bedford

Beyer, Peacock & Co., Ltd. Gorton Foundry, Manchester

Booth Joseph, & Bros., Ltd. Rodley, Leeds
 British Electric Plant Co., Ltd. 66, Carrick St., Glasgow

British Thomson-Houston Co., Ltd. Rugby
 Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne

Crompton & Co., Ltd. Salisbury House, London Wall, E.C.2

Electric Construction Co., Ltd. 9, New Broad St., E.C. 2

Electric Control, Ltd. .. Bridgeton, Glasgow

Electromotors, Ltd. .. Openshaw, Manchester

Electric Motors—Continued.

English Electric Co., Ltd.	Queen's House, Kingsway, W.C. 2
Ferguson C. J., & Sons	54, Chiswell St., E.C. 3
Hall J. P., & Co., Ltd.	Oldham
Hartnell Wilson, & Co., Ltd.	Kirkstall Rd., Leeds
Higgs Bros.	Sand Pits, Birmingham
Holmes J. H., & Co.	Newcastle-upon-Tyne
International General Electric Co., Inc.	Schenectady, New York, U.S.A.
Jennings Edward J.	West Walls, Newcastle-on-Tyne
Johnson & Phillips, Ltd.	Charlton, S.E. 7
Lancashire Dynamo & Motor Co., Ltd.	Trafford Pk., Manchester
Laurence, Scott, & Co., Ltd.	Norwich
Macfarlane Engineering Co., Ltd.	Netherlee Rd., Cathcart
Malcolm & Allan, Ltd.	499, Eglinton St., Glasgow
Mavor & Coulson, Ltd.	47, Broad St., Glasgow
Metropolitan-Vickers Electrical Co., Ltd.	Trafford Park, Manchester
Parsons C. A., & Co., Ltd.	Newcastle-on-Tyne
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Rees Roturbo Manufacturing Co., Ltd.	Wolverhampton
Royce, Limited	Trafford Park, Manchester
Sandycroft, Ltd.	Chester
Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., E.C.
Swedish General Electric, Ltd.	5, Chancery Lane, W.C. 2
Watt Motors, Ltd.	150, Southampton Row, W.C. 1

Electric Tools.

Campbell & Isherwood, Ltd.	Bootle, nr. Liverpool
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly, W. 1
Westminster Tool & Electric Company	116 Putney Bridge Rd., Putney, S.W. 15
White, Jacoby & Co., Ltd.	Bayham Place, Camden Town, N.W. 1
Witton-Kraemer Electric Tool & Hoist Works	Witton, Birmingham

Electrical Engineers.

Allen W. H., Sons, & Co., Ltd.	Bedford
Barry Henry, & Cook, Ltd.	Aberdeen
Beyer, Peacock & Co., Ltd.	Manchester
Brecknell, Munro & Rogers, Ltd.	Thrissell St., Bristol
British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
British Thomson-Houston Co., Ltd.	Rugby
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Crompton & Co., Ltd.	Salisbury House, London Wall, E.C. 2
Electric Control, Ltd.	Bridgeton, Glasgow
Electromotors, Ltd.	Openshaw, Manchester
English Electric Co., Ltd.	Queen's House, Kingsway, W.C. 2
Ferguson Pullin, Ltd.	Higher Openshaw, Manchester

Electrical Engineers—Continued.

General Electric Co., Ltd.	Magnet House, Kingsway, W.C. 2
Hall J. P., & Co., Ltd.	Oldham
Hartnell Wilson, & Co., Ltd.	Kirkstall Rd., Leeds
Hayward-Tyler & Co., Ltd.	99, Queen Victoria St., E.C.
Higgs, Bros.	Sand Pits, Birmingham
Holmes J. H., & Co.	Newcastle-upon-Tyne
Igranite Electric Co., Ltd.	147, Queen Victoria St., Charlton, S.E. 7 [E.C.]
Johnson & Phillips, Ltd.	Trafford Park, Manchester
Lancashire Dynamo & Motor Co., Ltd.	Norwich
Laurence, Scott, & Co., Ltd.	Netherlee Rd., Cathcart
Macfarlane Engineering Co., Ltd.	47, Broad St., Glasgow
Mavor & Coulson, Ltd.	Trafford Park, Manchester
Metropolitan-Vickers Electrical Co., Ltd.	Newcastle-on-Tyne
Parsons C. A., & Co., Ltd.	Wolverhampton
Rees Roturbo Manufacturing Co., Ltd.	Trafford Park, Manchester
Royce, Ltd.	Chester
Sandycroft, Ltd.	5, Chancery Lane, W.C. 2
Swedish General Electric, Ltd.	116 Putney Bridge Rd., Putney, S.W. 15
Westminster Tool & Electric Company	

Electroplating, Lacquering, Bronzing, &c.

Craddock Walter	17 & 19, Brook St., London Rd., Manchester
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Elevators (Grain, Coal, &c.).—(See also Coal Handling Plant, and Conveyors & Elevators.)

Allen Edgar, & Co., Ltd.	Sheffield
Barry Henry, & Cook, Ltd.	Aberdeen
Bennis Ed., & Co., Ltd.	Bolton
Coles H. J., Ltd.	London Crane Works, Derby
Conveyor & Elevator Co., Ltd.	Accrington, Lancashire
East Ferry Road Engineering Works Co., Ltd.	Millwall, B.
Fletcher Malleable Foundries, Ltd.	Derby
Fraser & Chalmers Engineering Works	Erith, Kent
Head, Wrightson & Co., Ltd.	Thornaby-on-Tees
Heenan & Froude, Ltd.	Worcester
Jeffrey Mfg. Co.	Columbus, Ohio, U.S.A.
Marsden H. R., Ltd.	Soho Foundry, Leeds
Paterson Hughes Engineering Co., Ltd.	Charlotte Lane, Glasgow
Pott, Cassels & Williamson	Motherwell, nr. Glasgow
Priestman Bros., Ltd.	28, Victoria St., S.W. 1
Reddaway F., & Co., Ltd.	Pendleton, Manchester
Rownson, Drew & Clydesdale, Ltd.	225, Upper Thames St., E.C. 4
Smith F. L., & Co., Ltd.	20, Essex St., W.C. 2
Smulders A. F.	Schiedam, Holland

Emery and Emery Cloth, &c.

Oakey, John, & Sons, Ltd.	Westminster Bridge Rd. S.B.
Rownson, Drew & Clydesdale, Ltd.	225, Upper Thames St., E.C. 4

Emery Grinding & Polishing Machinery.—(See Grinding and Polishing Machinery.)**Emery Wheels.**

Buck & Hickman, Ltd.	2 & 4, Whitechapel Rd., E.1
Churchill Chas., & Co., Ltd.	9-15, Leonard St., B.C.2
Morton & Weaver...	Cox St., Coventry
Rowson, Drew & Clydesdale, Ltd.	225, Upper Thames St., E.C.4
Sterne L., & Co., Ltd.	Crown Ironwks., Glasgow
Tattersall A. A. & Co.	Blackburn
Universal Grinding Wheel Co., Ltd.	Universal Works, Stafford

Engine and Boiler Fittings.

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Barclay Andrew, Sons & Co., Ltd.	Caledonia Works, Kilmarnock
Bell's United Asbestos Co., Ltd.	59½, Southwark St., S.E.
Blakeborough J., & Sons, Ltd.	Brighouse, Yorks.
Blundell's London Copper & Brass Works (1910), Ltd.	West India Dock Road, Limehouse, E.
Green & Boulding, Ltd.	162A, Dalston Lane, E.8
Hopkinson J., & Co., Ltd.	Huddersfield
Lunken Company, Ltd.	35, Great Dover St., S.E.
Manning, Maxwell & Moore, Inc.	New York
McRobie John, & Sons	94, Elliot St., Glasgow
M'Neill C., Ltd.	Kinning Park, Glasgow
Morton & Weaver	Cox St., Coventry
Pegler, Bros., & Co. (Glasgow), Ltd.	Anderston, Glasgow
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Royles Limited	Irlam, nr. Manchester
Russell John & Co., Ltd.	Birmingham
Smith Sydney, & Sons (Nottingham), Ltd.	Nottingham
Steam Fittings Co., Ltd.	West Drayton, Middlesex
Steven & Struthers	Kelvinhaugh, Glasgow
Stone J., & Co., Ltd.	1A, Cockspur St., S.W. 1
Tangyes Limited	Birmingham
Turnbull Alex., & Co., Ltd.	Bishopbriggs, Glasgow
United Brassfounders & Engineers, Ltd.	Cornbrook, Manchester
Victoria Tube Co., Ltd.	Great Bridge, Staffordshire

Engineers (Consulting and Inspecting).

British Commercial Gas Association	30, Grosvenor Gardens, S.W.1
Brownlie & Green, Ltd.	Church St., Cheetham, Manchester
Davis E. J.	Gt. Eastern Rd., Stratford, E.
Low Engineering Co., Ltd.	92A, High St., Kensington, W.8
Maxted & Knott, Ltd.	Burnett Avenue, Hull

Engines (Air).

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
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Engines (Blowing).—(See also Fans and Blowers and Ventilators.)

Adamson, Daniel, & Co., Ltd.	Dukinfield
Davy Brothers, Ltd.	Sheffield
Drysdale & Co., Ltd.	Bon Accord Wks., Yoker, Glasgow, W.
Fraser & Chalmers Engineering Works	Erith, Kent
Fullerton, Hodgart & Barclay, Ltd.	Paisley, Scotland
Gwynnes Engineering Co., Ltd.	Hammersmith Ironwks., W.
Metropolitan-Vickers Electrical Co., Ltd.	Trafford Park, Manchester
Thwaites Brothers, Ltd.	Central House, Kingsway, W.C.2

Engines (Gas).

Allen, W. H., Son & Co., Ltd.	Bedford
Anderson-Grice Co., Ltd.	Carnoustie, Scotland
Beardmore W., & Co., Ltd.	Glasgow
Browett, Lindley & Co., Ltd.	Patricroft, Manchester
Burmeister & Wain, Ltd.	Copenhagen, Denmark
Cameron John, Ltd.	Salford, Manchester
Campbell Gas Eng. Co., Ltd.	Halifax, England
Crossley Bros., Ltd.	Manchester
Davey, Paxman & Co., Ltd.	Colchester
Dudbridge Ironworks, Ltd.	Stroud, Gloucestershire
Fielding & Platt, Ltd.	Atlas Works, Gloucester
Galloways, Ltd.	Manchester
Haalam Foundry & Engineering Co., Ltd.	Derby
Hindley B. S., & Sons	11, Queen Victoria St., B.C.
Keighley Gas & Oil Engine Co., Ltd.	Imperial Works, Keighley
Lilleshall Co., Ltd.	Oakengates, Shropshire
Metropolitan-Vickers Electrical Co., Ltd.	Trafford Park, Manchester
National Gas Engine Co., Ltd.	Ashton - under - Lyne, Manchester
Norris, Henty & Gardners, Ltd.	Patricroft, Manchester
Power Gas Corporation, Ltd.	Stockton-on-Tees
Premier Gas Engine Co., Ltd.	Sandiacre, Nottingham
Robson John (Shipley), Ltd.	Shipley, Yorks.
Ruston & Hornsby, Ltd.	Lincoln
Smulders A. F.	Schiedam, Holland
Stewart Duncan, & Co., Ltd.	London Rd. Ironworks, Glasgow
Tangyes Limited	Birmingham
Thornycroft J. I., & Co., Ltd.	Smith Square, Westminster, S.W.1
Vickers, Ltd.	Barrow-in-Furness

Engines (Locomotive).

Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W. 1
Avonside Engine Co., Ltd.	Bristol
Bagnall W. G., Ltd.	Stafford
Baldwin Locomotive Wks.	34, Victoria St., S.W.
Barclay Andrew, Sons & Co., Ltd.	Kilmarnock, N.B.
Beyer, Peacock & Co., Ltd.	Manchester
English Electric Co., Ltd.	Queen's House, Kingsway, W.C.2
Fowler J., & Co. (Leeds), Ltd.	Leeds
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne

Engines (Locomotive)—Continued.

Hudswell, Clarke & Co., Ltd.	Leeds
Hunslet Engine Co., Ltd.	Leeds
Kilmarnock Engineering Co., Ltd.	10, Coleman St., E.C.2
Manning, Wardle & Co., Ltd.	Boyne Engine Wks., Leeds
Motor Rail & Tram Car Co.	Bedford
North British Locomotive Co., Ltd.	110, Flemington St., Springburn, Glasgow
Pockett & Sons, Ltd.	Atlas Locomotive Works, Bristol
Porter H. K., Company	Pittsburgh, Pa., U.S.A.
Ruston & Hornsby, Ltd.	Sheaf Ironworks, Lincoln
Stephenson Robert, & Co., Ltd.	Darlington
Wonham, Bates & Goode, Inc.	3, London Wall Buildings, E.C.
Yorkshire Engine Co., Ltd.	16, Finsbury Circus, E.C.

Engines (Marine).

Ailsa Shipbuilding Co., Ltd.	Troon, N.B.
Armstrong, Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W. 1
Burmeister & Wain, Ltd.	Copenhagen, Denmark
Campbell & Calderwood	Soho Works, Paisley, Scotland
Chaplin Alex., & Co.	Govan, Glasgow
Cochran & Co. (Annan), Ltd.	Annan, N.B.
Day, Sammers & Co., Ltd.	Southampton
Doxford William, & Sons, Ltd.	Sunderland
Fawcett, Preston & Co., Ltd.	Liverpool
Fleming & Ferguson, Ltd.	Paisley, N.B.
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Howden Overseas Trading Co., Ltd.	105, St. Vincent St., Glasgow
Lobnitz & Co., Ltd.	Renfrew, Scotland
McKie & Baxter	Govan, Glasgow
Mumford A. G., Ltd.	Colchester
North-Eastern Marine Engineering Co., Ltd.	Northumberland Works, Wallsend-on-Tyne
Paul Matthew, & Co., Ltd.	Dumbarton
Plenty & Son, Ltd.	Newbury, Berks
Richardsons, Westgarth & Co., Ltd.	Hartlepool [gow
Ross & Duncan	Whitefield Works, Glasgow
Rowan David, & Co.	231, Elliott St., Glasgow
Simons W., & Co., Ltd.	Renfrew, N.B.
Stewart Duncan, & Co., Ltd.	Glasgow
Sulzer Brothers	31, Bedford Sq., W.C. 1
Sun Shipbuilding Co.	1428 So. Penn Sq., Philadelphia, Pa., U.S.A.
Thornycroft J. I., & Co., Ltd.	Southampton
Vickers Limited	Barrow-in-Furness
Vickers-Petters, Ltd.	75B, Queen Victoria St., E.C. 4
Vosper & Co., Ltd.	Portsmouth
Walsend Slipway & Engineering Co., Ltd.	Wallsend
White J. Samuel, & Co., Ltd.	East Cowes, Isle of Wight
Yarrow & Co., Ltd.	Glasgow

Engines (Oil).

Agricultural & General Engineers, Ltd.	Central House, Kingsway, W.C. 2
Allen W. H., Son & Co., Ltd.	Bedford
Armstrong, Sir W. G., Whitworth Co., Ltd.	8, Great George St., S.W. 1

Engines (Oil)—Continued.

Aster Engineering Co. (1913) Ltd.	Wembley, Middlesex
Atlas Diesel Co., Ltd.	35, Surrey St., W.C. 2
Beardmore W., & Co., Ltd.	Glasgow
Belliss & Morcom, Ltd.	Ledsam St. Works, Birmingham
Bergius Launch & Engine Co., Ltd.	254, Dobbie's Loan, Glasgow
Blackstone & Co., Ltd.	Rutland Wks., Stamford
Broom & Wade, Ltd.	High Wycombe
Brotherhood Peter, Ltd.	Peterborough
Burmeister & Wain, Ltd.	Copenhagen, Denmark
Campbell Gas Eng. Co., Ltd.	Halifax, England
Carels Diesel & Steam Engines (London), Ltd.	Carlton House, Regent St., S.W. 1
Cole, Marchant & Morley, Ltd.	Bradford
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly, W. 1
Crossley Bros., Ltd.	Manchester
Doxford William, & Sons, Ltd.	Sunderland
Dudbridge Ironworks, Ltd.	Stroud, Gloucestershire
English Electric Co., Ltd.	Queen's House, Kingsway, W.C. 2
Fielding & Platt, Ltd.	Gloucester
Gleniffer Motors, Ltd.	Annieland, Glasgow
Hamworthy Engineering Co., Ltd.	76, Victoria St., S.W. 1
Hardy & Padmore, Ltd.	Worcester
Hick, Hargreaves & Co., Ltd.	Bolton
Keighley Gas & Oil Engine Co., Ltd.	Imperial Works, Keighley
Maclaren Brothers, Ltd.	24, St. Vincent Place, Glasgow
Marshall, Sons & Co., Ltd.	Gainsborough [Glasgow
Mirreles, Bickerton & Day, Ltd.	Hazel Grove, near Stockport
Mirreles Watson Co., Ltd.	Southland St., Glasgow
National Gas Engine Co., Ltd.	Ashton-under-Lyne, Manchester
Normand Augustin	67, Rue du Perrey, Le Havre, France
Norris, Henty & Gardners, Ltd.	Patricroft, Manchester
Perman & Co., Ltd.	82 & 83, Fenchurch St., E.C. 3
Petters Limited	Yeovil
Plenty & Son, Ltd.	Newbury, Berkshire
Reader B., & Sons	Phoenix Wks., Cremona St., Nottingham
Reavell & Co., Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Robson John (Shipley), Ltd.	Shipley, Yorks.
Ruston & Hornsby, Ltd.	Lincoln and Grantham
Smulders A. F.	Schiedam, Holland
Still Engine Co., Ltd.	7, Princes St., S.W. 1
Tangyes Limited	Birmingham
Thornycroft J. I., & Co., Ltd.	Smith Square, Westminster, S.W. 1
Vickers, Ltd.	Barrow-in-Furness
Vickers-Petters, Ltd.	75B, Queen Victoria St., E.C. 4
Vosper & Co., Ltd.	Portsmouth
Westinghouse Brake & Saxby Signal Co., Ltd.	82, York Rd., King's Cross, N.
White J. Samuel, & Co., Ltd.	East Cowes, Isle of Wight
Wolseley Motors, Ltd.	York St., Westminster, S.W.

Engines (Petrol).

Belliss & Morcom, Ltd.	Birmingham
Bergus Launch & Engine Co., Ltd.	254, Dobbie's Loan, Glasgow
Blackstone & Co., Ltd.	Rutland Wks., Stamford
Gleniffer Motors, Ltd.	Anniesland, Glasgow
Hardy & Padmore, Ltd.	Worcester
Keighley Gas & Oil Engine Co., Ltd.	Imperial Works, Keighley
MacLaren Brothers, Ltd.	24, St. Vincent Place, Glasgow
Vosper & Co., Ltd.	Portsmouth

Engines (Portable).

Blackstone & Co., Ltd.	Rutland Works, Stamford
Davey, Paxman & Co., Ltd.	Colchester
Garrett R. & Sons, Ltd.	Leiston Works, Suffolk
Marshall Sons & Co., Ltd.	Gainsborough
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Ruston & Hornsby, Ltd.	Lincoln and Grantham
Smedley Bros., Ltd.	Belper, Derbyshire
Thornycroft J. I., & Co., Ltd.	Smith Square, Westminster, S.W.1

Engines (Pumping).

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Barclay Andrew, Sons & Co., Ltd.	Caledonia Wks., Kilmarnock, Scotland
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Bever, Durling & Co., Ltd.	Bradford
Caird & Rayner	777, Commercial Rd., Limehouse, B. [grow]
Carruthers J. H., & Co., Ltd.	Polmadie Ironwks., Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Davey, Paxman & Co., Ltd.	Colchester
Drysdale & Co., Ltd.	Bon Accord Wks., Yoker, Glasgow, W.
East Ferry Road Engineering Works Co., Ltd.	Millwall, E.
Fleming & Ferguson, Ltd.	Paisley, N.B.
Fullerton, Hodgart & Barclay, Ltd.	Vulcan Foundry and Engine Works, Paisley
Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Gwynnes Engineering Co., Ltd.	Hammersmith Ironwks., W.
Manlove, Allott & Co., Ltd.	Nottingham
Musgrave Bros.	Crown Point Foundry, Leeds
Pratchitt Bros.	Denton Ironwks., Carlisle
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Rees Roturbo Manufacturing Co., Ltd.	Wolverhampton
Rice & Co. (Leeds), Ltd.	Eland Rd., Leeds
Tangyes Limited	Birmingham
Worthington - Simpson, Ltd.	Queen's House, King's way, W.C. 2

Engines (Stationary).

Adamson Daniel, & Co., Ltd.	Dukinfield, Manchester
Agricultural & General Engineers, Ltd.	Central House, King's way, W.C. 2
Allen W. H. Son, & Co., Ltd.	Bedford
Alley & Macellan, Ltd.	Sentinel Works, Glasgow
Anderson Foundry Co., Ltd.	100, Cheapside St., Glasgow

Engines (Stationary)—Continued.

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Belliss & Morcom, Ltd.	Birmingham
Bever, Durling & Co., Ltd.	Bowling Ironworks, Bradford
Brotherhood P., Ltd.	Peterborough.
Browett, Lindley & Co. Ltd.	Patricroft, Manchester
Carls Diesel & Steam Engines (London), Ltd.	Carlton House, Regent St., S.W.1
Chaplin Alex., & Co., Ltd.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Cole, Marchent & Morley, Ltd.	Bradford.
Davey, Paxman & Co., Ltd.	Colchester
Davy Bros., Ltd.	Sheffield
Donkin Co., Ltd. (The Bryan)	Chesterfield
Douglas & Grant, Ltd.	Kirkcaldy, N.B.
Drysdale & Co., Ltd.	Bon Accord Wks., Yoker, Glasgow, W.
East Ferry Road Engineering Works Co., Ltd.	Millwall, B.
Fawcett, Preston & Co., Ltd.	Liverpool
Fowler J., & Co. (Leeds), Ltd.	Leeds
Fraser & Chalmers Engineering Works	Erith, Kent
Fullerton, Hodgart & Barclay, Ltd.	Vulcan Foundry and Engine Works, Paisley
Galloways, Ltd.	Manchester
Garrett R. & Sons, Ltd.	Leiston Works, Suffolk
Grantham Boiler & Crank Co., Ltd.	Grantham
Gwynnes Engineering Co., Ltd.	Hammersmith Ironwks., W.
Harvey Engineering Co., Ltd.	Scotland St. Engine Wks., Glasgow
Heenan & Froude, Ltd.	Worcester
Hick, Hargreaves & Co., Ltd.	Bolton
Hindley E. S., & Sons	11, Queen Victoria St., E.C.
Howden James, & Co., Ltd.	Scotland St., Glasgow
Lilleshall Co., Ltd.	Oakengates, Shropshire
Manlove, Allott & Co., Ltd.	Nottingham
Marshall, Sons & Co., Ltd.	Gainsborough
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Musgrave & Co., Ltd.	St. Ann's Ironwks., Belfast
Newton, Bean & Mitchell	Dudley Hill, Bradford
Parsons C. A., & Co., Ltd.	Newcastle-on-Tyne
Paul Matthew & Co., Ltd.	Dumbarton
Peckett & Sons, Ltd.	Atlas Eng. Works, Bristol
Ransome A., & Co., Ltd.	Newark-on-Trent
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Reader B., & Sons	Phoenix Wks., Cremona St., Nottingham
Reavell & Co., Ltd.	Ipswich
Robey & Co., Ltd.	Lincoln
Russell Geo., & Co., Ltd.	Motherwell, nr. Glasgow
Ruston & Hornsby, Ltd.	Grantham
Sandycroft, Ltd.	Chester
Shanks Thomas, & Co.	Johnstone, N.B.
Sisson W., & Co., Ltd.	Gloucester
Smedley Bros., Ltd.	Belper, Derbyshire
Stewart Duncan, & Co., Ltd.	Glasgow
Still Engine Co., Ltd.	7, Princes St., S.W.1
Sun Shipbuilding Co.	1428 So., Penn Sq., Philadelphia, Pa., U.S.A.
Tangyes Limited	Birmingham
Taylor & Challen, Ltd.	Birmingham

Engines (Stationary)—Continued.

Thornycroft J. I., & Co., { Smith Square, West-
Ltd. minster, S.W.1
Tullis D. & J., Ltd. .. Glasgow
Walker Bros. (Wigan), Ltd. Pagefield Iron Works,
Wigan

Engines (Traction).

Aveling & Porter, Ltd. .. Rochester
Avonside Engine Co., Ltd. Bristol
Clayton Wagons, Ltd. .. Lincoln
Davey, Paxman & Co., Ltd. Colchester
Fowler J., & Co. (Leeds), Ltd. Leeds
Garrett R., & Sons, Ltd. .. Leiston Works, Suffolk
Marshall, Sons & Co., Ltd. Gainsborough
Ransomes, Sims & Jefferies, Ltd. Ipswich
Robey & Co., Ltd. .. Lincoln
Ruston & Hornsby, Ltd. Lincoln and Grantham
Thornycroft J. I., & Co., Ltd. Basingstoke
Wolseley Motors, Ltd. .. York St., Westminster, S.W.

Engines (Winding).—(See also *Haulage Plants*.)

Barclay Andrew, Sons & Co., Ltd. } Caledonia Wks., Kilmar-
Bever, Doring & Co., Ltd. } nock, Scotland
Bowling Ironwks., Brad-
ford
Carron Co. .. Carron, Stirlingshire
Chaplin Alex., & Co., Ltd. .. Govan, Glasgow
Clarke, Chapman & Co., Ltd. Gateshead-on-Tyne
Davey, Paxman & Co., Ltd. Colchester
East Ferry Road Engineer-
ing Works Co., Ltd. Millwall, B.
Fawcett, Preston & Co., Ltd. Liverpool
Fraser & Chalmers
Engineering Works Erith, Kent
Galloways, Ltd. .. Manchester
Heath Robert, & Low
Moor, Ltd. .. Bradford, Yorkshire
Heenan & Froude, Ltd. Worcester
Lidgerwood Ltd. .. Friars House, New Broad
St., E.C.
Marshall, Sons & Co., Ltd. Gainsborough
Napier Bros., Ltd. 130, Hyde Park St., Glas-
gow, W.
Denton Ironwks., Carlisle
Pratchitt Bros. .. Ipswich
Ransomes, Sims, & Jefferies, Ltd. Lincoln
Robey & Co., Ltd. .. Lincoln
Ruston & Hornsby, Ltd. Sheaf Ironworks, Lincoln
Sandycroft, Ltd. .. Chester
Tangyes Limited .. Birmingham
Uskside Iron Works .. Newport, Mon.
Walker Bros. (Wigan), Ltd. Pagefield Iron Works,
Wigan

Evaporators.—(See also *Distilling (Water) Apparatus*.)

Caird & Rayner .. 777, Commercial Rd., E.
Fullerton, Hodgart and } Vulcan Foundry and
Barclay, Ltd. .. } Engine Works, Paisley
Harvey Engineering Co., } Scotland St. Engine
Ltd. .. } Works, Glasgow
Kirkaldy John, Ltd. 101, Leadenhall St.,
E.C. 3
Manlove, Allott & Co., Ltd. Nottingham
Mirlees Watson Co., Ltd. Scotland St., Glasgow
Richardsons, Westgarth &
Co., Ltd. .. Hartlepool
Royles, Ltd. .. Irlam, nr. Manchester
Weir G. & J., Ltd. .. Cathcart, Glasgow

Excavators.

Arrol Sir William, & Co., Ltd. Parkhead, Glasgow
Bucyrus Co. .. 13, Victoria St., West-
minster, S.W.
Chaplin Alex., & Co., Ltd. Govan, Glasgow
Coles H. J., Ltd. .. London Crane Wks., Derby
Fairclough, Harry .. Howley, Warrington
Fiege Ltd. .. Haarlem, Holland
Fleming & Ferguson, Ltd. Paisley, N.B.
Goodacre Wm., & Sons, Ltd. Victoria Dock, E.16
Hill & Co (Engineers), Ltd. 72 & 74, Victoria St.,
S.W.1
Lobnitz & Co., Ltd. .. Renfrew, Scotland
Priestman Bros., Ltd. 28, Victoria St., S.W. 1
Rose, Dowds & Thompson, Ltd. Old Foundry, Hull
Ruston & Hornsby, Ltd. Sheaf Ironworks, Lincoln
Smidth F. L., & Co., Ltd. 20, Essex St., W.C. 2
Smulders A. F. .. Schiedam, Rotterdam,
Holland
Western Wheeled Scraper Co. Aurora, Illinois, U.S.A.
Westwood, Joseph & Co., Ltd. Napier Yard, Millwall, B.
Whitaker D. .. 1, Union St., Leicester

Exhausters.—(See also *Gas Exhausters*.)

Alldays & Onions, Ltd. .. Birmingham
British Vacuum Cleaner Co., Ltd. Dept. 5/20, Parson's
Donkin Co., Ltd. (The Bryan) } Green Lane, S.W.
Gwynnes Engineering Co., } Chesterfield
Ltd. 81, Cannon St., E.C.
Standard & Oswald Stott (Engineers), Ltd. .. Leicester

Expanded Metal.

Expanded Metal Co., Ltd. York Mansion, York, St.
Westminster, S.W.

Fans and Blowers.—(See also *Engines—Blowing, and Ventilators*.)

Alldays & Onions, Ltd. .. Birmingham
Allen W.H., Sons, & Co., Ltd. Bedford
Barclay Andrew, Sons & Co., Ltd. } Caledonia Wks., Kilmar-
nock, Scotland
Brotherhood P., Ltd. .. Peterborough
Churchill Chas., & Co., Ltd. 9 to 15, Leonard St., E.C.
Davidson & Co., Ltd. .. Sirocco Engineering Wks.,
Belfast
Donkin Co., Ltd. (The Bryan) Chesterfield
Fraser & Chalmers
Engineering Works .. Erith, Kent
Gunther W., & Sons .. Central Works, Oldham
Gwynnes Engineering Co., } Hammersmith Ironwks.,
Ltd. .. } W.
Heenan & Froude, Ltd. .. Worcester
Howden James, & Co. .. Scotland St., Glasgow
Keith James, & Blackman } 27, Farringdon Avenue,
Co., Ltd. .. } E.C.
Murray, McVinnie & Co., } Mavisbank Quay, Glas-
gow
Musgrave & Co., Ltd. .. Belfast
Parsons C. A., & Co., Ltd. Newcastle-on-Tyne
Paul Matthew, & Co., Ltd. Dumbarton
Progressive Engineering Co., Ltd. .. Leicester

Fans and Blowers—Continued.

Simon-Carves, Ltd.	..	Manchester
Standard & Oswald Stott (Engineers), Ltd.	..	Leicester
Startevant Engineering Co., Ltd.	..	147, Queen Victoria St., E.C.
Sutcliffe Ventilating & Drying Co., Ltd.	..	Manchester
Thwaites Brothers, Ltd.	..	Central House, Kingsway, W.C.2
Westminster Tool & Electric Co.	..	116 Putney Bridge Rd., Putney, S.W. 15

Feed Check Valves (Combination).

Green & Boulding, Ltd.	..	162A, Dalston Lane, E.8
Hopkinson J., & Co., Ltd.	..	Huddersfield
Weir G. & J., Ltd.	..	Cathcart, Glasgow

Feed Water Filters.—(See also Filtering Apparatus.)

Caird & Rayner	..	777, Commercial Rd., Limehouse, E.
Carruthers J. H., & Co., Ltd.	..	Glasgow
Crookatt, W., & Sons, Ltd.	..	64, Darnley St., Glasgow
Griscom-Russell Co.	..	95, West St., New York, U.S.A.
Harris Patent Feed-Water Filter (1910), Ltd.	..	24, Grainger St. West, Newcastle-on-Tyne

Feed Water Heaters.

Bailey Sir W.H., & Co., Ltd.	..	Salford, Manchester
Caird & Rayner	..	777, Commercial Rd., E.
Clarke, Chapman & Co., Ltd.	..	Gateshead-on-Tyne
Clay Cross Co., Ltd.	..	Clay Cross, Nr. Chesterfield
Green E. & Son, Ltd.	..	Wakefield
Griscom-Russell Co.	..	95, West St., New York, U.S.A.
Hall J. P., & Sons	..	Peterborough
North-Eastern Marine Engineering Co., Ltd.	..	Northumberland Works, Wallsend-on-Tyne
Paterson Engineering Co., Ltd.	..	21, Windsor House Kingsway, W.C. 2
Royles, Ltd.	..	Irlam, nr. Manchester
Tangyes, Ltd.	..	Birmingham
Weir G. & J., Ltd.	..	Cathcart, Glasgow
Worthington-Simpson, Ltd.	..	Queen's House, Kingsway, W.C.2
Wright's Forge & Engineering Co., Ltd.	..	Tipton, Staffs.

Feed Water Regulators.

Aster Engineering Co. (1913), Ltd.	..	Wembley, Middlesex
Mumford A. G., Ltd.	..	Colchester
Thornycroft J. I., & Co., Ltd.	..	Southampton
Warner Robert, & Co. (Engineers), Ltd.	..	14-16, Cockspur St., S.W. 1
White J. Samuel, & Co., Ltd.	..	East Cowes, Isle of Wight
Yarrow & Co., Ltd.	..	Glasgow

Fencing.

Bayliss, Jones & Bayliss, Ltd.	..	Wolverhampton
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Ferro Concrete.—(See Concrete—Reinforced.)**Files.**

Allen Edgar, & Co., Ltd.	..	Sheffield
Apex Steel Co., Ltd.	..	Sheffield
Cammell Laird & Co., Ltd.	..	Sheffield
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Hadfields Limited	..	Hedra Works, Sheffield
Howell & Co., Ltd.	..	Brook St. Works, Sheffield
Osborn Samuel, & Co., Ltd.	..	Sheffield
Turton T., & Sons, Ltd.	..	Sheaf Works, Sheffield

Filtering Apparatus.—(See also Feed-Water Filters.)

Buhring's Patent Water Purifying Co.	..	146A, Queen Victoria St., E.C.
Caird & Rayner	..	777, Commercial Rd., E.
Carruthers J. H., & Co., Ltd.	..	Glasgow
Cockburns, Ltd.	..	Cardonald, Glasgow
Griscom-Russell Co.	..	95, West St., New York, U.S.A.
Harris Patent Feed Water Filter (1910), Ltd.	..	82, Victoria St., S.W.
Manlove, Alliott & Co., Ltd.	..	Nottingham
Paterson Engineering Co., Ltd.	..	21, Windsor House, Kingsway, W.C.2
Pulsometer Engineering Co., Ltd.	..	Nine Elms Ironworks, Reading
Royles, Ltd.	..	Irlam, nr. Manchester
United Water Softeners, Ltd.	..	Imperial House, Kingsway, W.C. 2
Wells A. C., & Co.	..	102, Midland Rd., N.W.
Wright's Forge & Engineering Co., Ltd.	..	Tipton, Staffs.

Filters (Air).

Davidson & Co., Ltd.	..	Belfast
Heenan & Froude, Ltd.	..	Worcester
Premier Cooler & Engineering Co., Ltd.	..	Shalford, nr. Guildford, Surrey
Princede & Co.	..	Sheffield

Fire Bars.

Barclay Andrew, Sons & Co., Ltd.	..	Caledonia Works, Kilmarnock
Rose, Downs & Thompson, Ltd.	..	Old Foundry, Hull

Fire Bricks.—(See Refractory Materials).**Fire-Extinguishing Apparatus.**

Birch John, & Co., Ltd.	..	2, London Wall Buildings, E.C.
Blakeborough J., & Sons, Ltd.	..	Brighouse, Yorks.
Guest & Chimes	..	Rotherham
Ham, Baker & Co., Ltd.	..	Langley Green, Birmingham
Merryweather & Sons, Ltd.	..	61, Long Acre, W.C.
Reddaway F., & Co., Ltd.	..	Pendleton, Manchester
Worthington Simpson, Ltd.	..	Queen's House, Kingsway, W.C.2

Flour Mill Machinery.—(See Mill Machinery—Flour, Corn, and Rice.)

Forced and Induced Draught Apparatus.

Alldays & Onions, Ltd.	..	Birmingham
Bennis Ed., & Co., Ltd.	..	Bolton
Davidson & Co., Ltd.	..	Belfast
Davy Bros., Ltd.	..	Sheffield
Heenan & Froude, Ltd.	..	Worcester
Howden James, & Co., Ltd.	..	Scotland St., Glasgow
Keith James, & Blackman Co., Ltd.	..	27, Farringdon Av., E.C.
Mechans Limited	..	Glasgow
Meldrums, Ltd.	..	Timperley, nr. Manchester
Musgrave & Co., Ltd.	..	Belfast
Simon-Carves, Ltd.	..	Manchester
Standard & Oswald Stott (Engineers), Ltd.	..	Leicester
Sturtevant Engineering Co., Ltd.	..	147, Queen Victoria St., E.C.
Utting S.	..	82, Victoria St., S.W. 1

Forges (Portable).

Standard & Oswald Stott (Engineers), Ltd.	..	Leicester
Sturtevant Engineering Co., Ltd.	..	147, Queen Victoria St., E.C.

Forging Machines and Plant.

Berry Henry, & Co., Ltd.	..	Croydon Works, Hunslet, Coventry [Leeds]
Brett's Patent Lifter Co., Ltd.	..	Bangor Rd., Leith
Davis & Primrose, Ltd.	..	Sheffield
Davy Bros., Ltd.	..	Birmingham
Player W. & J.	..	Elland Rd., Leeds
Rice & Co. (Leeds), Ltd.	..	Birmingham
Taylor & Challen, Ltd.	..	Birmingham

Forging Presses.—(See also Hydraulic Presses.)

Berry Henry, & Co., Ltd.	..	Croydon Works, Hunslet, Coventry [Leeds]
Davy Bros., Ltd.	..	Sheffield
Fielding & Platt, Ltd.	..	Gloucester
Hollings & Guest, Ltd.	..	Thimble Mill Lane, Birmingham
Rice & Co. (Leeds), Ltd.	..	Elland Rd., Leeds
Stewart Duncan, & Co., Ltd.	..	London Rd. Ironworks, Glasgow

Forgings (Brass, Bronze, Copper &c.).

Armstrong Sir W. G., & Co., Ltd.	..	8, Great George St., Whitworth & Co., Ltd. } Westminister, S.W. 1
Delta Metal Co., Ltd.	..	East Greenwich, S.E.
McKechie Bros., Ltd.	..	Rotton Park St., Birmingham
Weir G. & J., Ltd.	..	Cathcart, Glasgow.

Forgings (Drop).

Armstrong, Stevens & Son, Ltd.	..	Whittall St., Birmingham
Brett's Stamping Co., Ltd.	..	Harnall Lane, Coventry
Clayton Wagons, Ltd.	..	Lincoln
Electro-Mechanical Brake Co., Ltd.	..	Bagle Wks., West Bromwich
Gartsberrie Engineering & Forge Co.	..	50, Wellington St., Glasgow
Head, Wrightson & Co., Ltd.	..	Thornaby-on-Tees
Heath Robert, & Low Moor, Ltd.	..	Bradford, Yorkshire
Hurst, Nelson & Co., Ltd.	..	Motherwell, N.B.
Keay E. C. & J., Ltd.	..	Corporation St., Birmingham
Leeds Forge Company, Ltd.	..	Leeds

Forgings (Drop)—Continued.

McNeil Charles, Ltd.	..	Glasgow
Scottish Stamping and Engineering Co., Ltd.	..	Ayr, Scotland
Smethwick Stamping Co.	..	Bridge St., Smethwick, Sheffield
Vickers Limited	..	[Staffs]
Wiley James, & Sons, Ltd.	..	Darlington
Williams J. H., & Co.	..	91, Richard St., Brooklyn, N.Y., U.S.A.

Forgings (Iron and Steel).

Armstrong Sir W. G., & Co., Ltd.	..	8, Great George St., S.W. 1
Barr, Thomson & Co., Ltd.	..	Kilmarnock, Scotland
Beardmore Wm., & Co., Ltd.	..	Parkhead Ironworks, Glasgow
Bessemer Hy., & Co., Ltd.	..	Sheffield
Brown John, & Co., Ltd.	..	Sheffield
Cammell Laird & Co., Ltd.	..	Sheffield
Carron Co.	..	Carron, Stirlingshire
Clarke's Crank & Forge Co., Ltd.	..	Lincoln
Clayton Wagons, Ltd.	..	Lincoln
Colville David, & Sons, Ltd.	..	Glasgow
Darlington Forge, Ltd.	..	Albert Hill, Darlington
Dennystown Forge Co.	..	Dumbarton
Electro Mechanical Brake Co., Ltd.	..	Eagle Wks., West Bromwich
Fife Forge Co., Ltd.	..	Kirkcaldy, Scotland
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Hadfields Limited	..	Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	..	Newcastle-on-Tyne
Heath Robert, & Low Moor, Ltd.	..	Bradford, Yorkshire
Hingley, N., & Sons, Ltd.	..	Netherton Iron Works, Dudley
Holding John, & Co., Ltd.	..	Sheffield
Hurst, Nelson & Co., Ltd.	..	Motherwell, N.B.
Jessop Wm., & Sons, Ltd.	..	Brightside Works, Sheffield
Kirkstall Forge Ltd.	..	Leeds
Leeds Forge Co., Ltd.	..	Leeds
McNeil Charles, Ltd.	..	Glasgow
Midland Railway Carriage & Wagon Co., Ltd.	..	Midland Works, Birmingham
North-Eastern Marine Engineering Co., Ltd.	..	Northumberland Works, Wallsend-on-Tyne
Richards Edwin, & Sons	..	Portway Wks., Wednesbury
Somers, Walter, Ltd.	..	Halesowen [Glasgow]
Steel Co. of Scotland, Ltd.	..	23, Royal Exchange Sq., Southampton
Thornycroft J. I., & Co., Ltd.	..	Uskide Iron Works
Vickers Limited	..	Newport, Mon. Sheffield
Wood, Henry & Co., Ltd.	..	Saltney, near Chester

Forgings (Non-Ferrous).**Foundry Plant.—(See also Crucibles, Cupolas, Ladles, Moulding Machines, and Sand Blasting Machines.)**

Alldays & Onions, Ltd.	..	Birmingham
Burmeister & Wain, Ltd.	..	Copenhagen, Denmark
Constructional Engineering Co., Ltd.	..	Charles Henry St., Birmingham
Incandescent Heat Co., Ltd.	..	Smethwick, Birmingham
McNeil Charles, Ltd.	..	Glasgow
Thwaites Brothers, Ltd.	..	Central House, Kingsway, W.C.2
Wonham, Bates & Goode, Inc.	..	3, London Wall Buildings, E.C.

Furnaces for Destroying Refuse.—(See Disinfectors and Destructors.)**Furnaces and Furnace Fittings.**

Alldays & Onions, Ltd.	Birmingham
Anderson Daniel, & Co., Ltd.	Dukinfield, Manchester
August's Muffle Furnaces, Ltd.	Halifax
Beardmore W. & Co., Ltd.	Glasgow
Bennis Ed., & Co., Ltd.	Bolton
Brett's Patent Lifter Co., Ltd.	Coventry
Brown John, & Co., Ltd.	Sheffield
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., B.C.
Dowson & Mason Gas Plant Co., Ltd.	Levenshulme, Manchester
Electro-Metals, Ltd.	Imperial Buildings, 56, Kingsway, W.C.
Gibbons Bros., Ltd.	Dudley, Worc.
Howden James, & Co., Ltd.	Scotland St., Glasgow
Incandescent Heat Co., Ltd.	Smethwick, Birmingham
Leeds Electrical Construction Co., Ltd.	Charmouth St., Leeds
Leeds Forge Co., Ltd.	Leeds
Meltdrums, Ltd.	Timperley, nr. M'chester
Piggott Thos., & Co., Ltd.	Birmingham
Power Gas Corporation, Ltd.	Stockton-on-Tees
Richmond Gas Stove & Meter Co., Ltd.	Academy St., Warrington
Turbine Furnace Co., Ltd.	238a, Gray's Inn Rd., W.C.1
Wallend Slipway & Engineering Co., Ltd.	Wallend
Wellman Smith Owen Engineering Corp., Ltd.	King's House, Kingsway, W.C.2
White Patent Oil Burning Co., Ltd.	Shadwell St., South Shields
Wincott, G. P., Ltd.	180, Attercliffe Rd., Sheffield

Furnaces (Gas and Oil Heated).

Alldays & Onions, Ltd.	Birmingham
Baker Joseph, Sons & Perkins, Ltd.	21, College Hill, E.C.
Beeston & Stevenson, Ltd.	Llanelli, Carmarthen-shire
Incandescent Heat Co., Ltd.	Smethwick, Birmingham
Power Gas Corporation, Ltd.	Stockton-on-Tees
Richmond Gas Stove & Meter Co., Ltd.	Academy St., Warrington
Wincott, G. P., Ltd.	180, Attercliffe Rd., Sheffield

Furnaces (Hardening).

August's Muffle Furnaces, Ltd.	Halifax
Beeston & Stevenson, Ltd.	Llanelli, Carmarthen-shire
Churchill C. & Co., Ltd.	9-15, Leonard St., B.C.
Davis Furnace Co.	Diamond Foundry, Luton
Gibbons Bros., Ltd.	Dudley, Worc.
Incandescent Heat Co., Ltd.	Smethwick, Birmingham
Leeds Electrical Construction Co., Ltd.	Charmouth St., Leeds
Power Gas Corporation, Ltd.	Stockton-on-Tees
Richmond Gas Stove & Meter Co., Ltd.	Academy St., Warrington
Wincott G. P., Ltd.	180, Attercliffe Rd., Sheffield

Furniture and Fittings (Metal, &c.).**Fusible Plugs.**

Lunken Co., Ltd.	35, Great Dover St., S.B.
National Boiler and General Insurance Co., Ltd.	St. Mary's Parsonage, Manchester

Galvanised Ironwork.

Ash Joseph, & Son	Rea St. South, Birm'gh'm
Braby Fred., & Co., Ltd.	Buston Rd., N.W.
Butterfield W. P., Ltd.	Shipley, Yorks
Harvey G. A., & Co.	Greenwich Metal Works, (London), Ltd.
Ramshay & Marshall, Ltd.	Woolwich Rd., S.B. Birmingham

Galvanizers.

Ash Joseph, & Son	Rea St. South, Birm'gh'm
Braby Fred., & Co., Ltd.	Buston Rd., N.W.
Harvey G. A., & Co.	Greenwich Metal Works, (London), Ltd.
Lysaght John, Ltd.	Woolwich Rd., S.B.
Wolverhampton Corrugated Iron Co., Ltd.	St. Vincent Ironworks, Bristol Ellesmere Port, nr. Birkenhead

Galvanizing.—(Plant for).

Thompson Bros. (Bilston), Ltd.	Bradley Engineering and Boiler Works, Bilston
Thompson John (Wolverhampton), Ltd.	Wolverhampton

Gas Compressors (High Pressure).

Belliss & Morcom, Ltd.	Ledsam St. Works, Birmingham
Seagers Limited	Dartford, Kent

Gas Cylinders.

Chesterfield Tube Co., Ltd.	Chesterfield
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Gas Engines.—(See Engines, Gas.)**Gas Exhausters.—(See also Exhaustors.)**

Allen W.H. Sons & Co., Ltd.	Bedford
Donkin Co., Ltd. (The Bryan)	Chesterfield
Gwynnes Engineering Co., Ltd.	81, Cannon Street, E.C.
Simon-Carves, Ltd.	Manchester
Sturtevant Eng. Co., Ltd.	147, Queen Victoria St., E.C.

Gas Producers.

Anderson-Grice Co., Ltd.	Carnoustie, Scotland
Bellamy John, Ltd.	Millwall, B.
Cameron John, Ltd.	Salford, Manchester
Campbell Gas Engine Co., Ltd.	Halifax, England
Clayton Son, & Co., Ltd.	Hunslet, Leeds
Crossley Bros., Ltd.	Openshaw, Manchester
Daniels T. H. & J., Ltd.	Stroud, Glos.
Davey, Paxman & Co., Ltd.	Colchester
Dowson & Mason Gas Plant Co., Ltd.	Levenshulme, Manchester
Fielding & Platt, Ltd.	Gloucester
Hooper & Weyman	Pilgrim House, New-castle-on-Tyne
Humphreys & Glasgow, Ltd.	38, Victoria St., S.W.
National Gas Engine Co., Ltd.	Ashton-under-Lyne

Gas Producers—Continued.

Power Gas Corporation, Ltd.	Stockton-on-Tees
Robson John (Shipley), Ltd.	Shipley, Yorks.
Ruston & Hornsby, Ltd.	Lincoln and Grantham
Stewart Duncan, & Co., Ltd.	London Rd. Ironworks, Glasgow
Tangyes Limited	Birmingham
Wincott G. P., Ltd. ..	180, Attercliffe Rd., Sheffield

Gas Works (Plant for).—(See also Coke Rams, and Exhaustors.)

Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Campbell Gas Engine Co., Ltd.	Halifax, England
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Clayton Son, & Co., Ltd.	Hunslet, Leeds
Donkin Co., Ltd. (The Bryan)	Chesterfield
Head, Wrightson & Co., Ltd.	Thornaby-on-Tees
Jenkins, W. J., & Co., Ltd.	Beehive Works, Retford
McClintic-Marshall Products Co.	Church St., New York, U.S.A.
Piggott Thos., & Co., Ltd.	Springhill, Birmingham

Gases (Oxygen, &c.).

Allen-Liversidge, Ltd.	106, Victoria St., S.W.
Integral Oxygen Co., Ltd.	38, Victoria St., S.W. 1

Gases (Plant for Producing).

Humphreys & Glasgow, Ltd.	38, Victoria St., S.W.
Power Gas Corporation, Ltd.	Stockton-on-Tees

Gauge Glasses.

Butterworth Bros., Ltd.	Manchester
Lunken Co., Ltd.	35, Great Dover St., S.B.
Tomey Joseph, & Sons, Ltd.	Aston, Birmingham

Gauges (Pressure, Vacuum and Hydraulic).

Armstrong Sir W. G., White & Co., Ltd.	8, Great George St., S.W. 1
Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Budenberg Gauge Co., Ltd.	Broadheath, nr. Manchester
Casartelli J., & Son	18, Brown St., Manchester
Dobbie, McInnes & Clyde, Ltd.	57, Bothwell St., Glasgow
Hannan & Buchanan	75, Robertson St. Glasgow
Hopkinson J., & Co., Ltd.	Huddersfield [gown]
Lunken Co., Ltd.	35, Great Dover St., S.B.
Manning, Maxwell & Moore, Inc.	New York
Negretti & Zambra	38, Holborn Viaduct, B.C.
Precision Gauges Ltd.	Wrentham St., Birmingham
Salter Geo., & Co., Ltd.	West Bromwich
Smith Bros., & Co. (Hyson), Ltd.	Nottingham
Société Genevoise d'Instruments de Physique	95, Queen Victoria St., E.C. 4
Taylor George (Brass Founders), Ltd.	Bolton, nr. Manchester
United Brassfounders & Engineers, Ltd.	Carnbrook, Manchester

Gear Cutters.

British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
Buck & Hickman, Ltd.	2 & 4, Whitechapel Rd., E. 1
Campbells & Hunter, Ltd.	Dolphin Foundry, Leeds
Eang John, & Sons	Johnstone, nr. Glasgow
Power Plant Co., Ltd.	West Drayton, Middlesex
Reay Gearworks, Ltd.	Gateshead-on-Tyne
Reid Gear Co.	Linwood, nr. Paisley
Wallwork Henry, & Co., Ltd.	Manchester

Gearing.—(See Wheels—Geared.)**Gearing (Clockwork).**

Charpillon Daniel, Frères & Co.	63, Queen Victoria St., E.C.
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Gearing (Speed Reducing).

Brown David, & Sons (Huddersfield), Ltd.	Park Works, Huddersfield
Citroën Gear Co., Ltd.	22, Buckingham Gate, S.W. 1
De Laval Steam Turbine Co.	150, Southampton Row, W.C.
"H.-R." Gear Syndicate	168, Regent St., W.
Llewellyn's Machine Co.	Bristol, England
Power Plant Co., Ltd.	West Drayton, Middlesex
Reid Gear Co.	Linwood, nr. Paisley
Turbine Gears, Ltd.	Hyde, Cheshire
Variable Speed Gear, Ltd.	Broadway Court, S.W. 1
Wallwork Henry, & Co., Ltd.	Manchester

Gears (Rawhide, &c.).

Angus George, & Co., Ltd.	Newcastle-on-Tyne
British-Thomson Houston Co., Ltd.	Rugby
Campbell & Isherwood	Bootle, nr. Liverpool
Reay Gearworks, Ltd.	Gateshead-on-Tyne
Wallwork Henry, & Co. Ltd.	Manchester

Girders.

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Glasgow
Booth John, & Sons	Bolton
Clyde Structural Iron Co., Ltd.	Clydeside Ironworks, Glasgow
Heenan & Froude, Ltd.	Scotstoun, Glasgow
	Newton Heath Ironworks, nr. Manchester
Mechans Limited	Glasgow
Piggott Thos., & Co., Ltd.	Springhill, Birmingham

Glazing.

Grover & Co., Ltd.	Carpenter's Rd., Stratford, E.
Hope Henry, & Sons, Ltd.	Smethwick, Birmingham

Gold Crushing and Amalgamating Machinery.

Davey, Paxman & Co., Ltd.	Colchester
Hadfields Limited	Hecla Works, Sheffield
Marsden H. R., Ltd.	Soho Foundry, Leeds
Sandycroft, Ltd.	Chester

Gold Dredgers.

Bucyrus Co. 13, Victoria St., S.W. 1
 Lobnitz & Co., Ltd. .. Renfrew, Scotland
 Simons W., & Co., Ltd. .. Renfrew, Scotland

Governors (Engine).

Boving & Co., Ltd. .. 56, Kingsway, W.C. 2
 Bucher, Wyss & Co. .. 20, Grosvenor Gardens, S.W. 1
 Hartnell Wilson, & Co., Ltd. Volt Works, Kirkstall Rd., Leeds

Hollingsdrake H., & Sons, Ltd.

Stockport
 Mason Regulator Co. .. Boston, Mass. U.S.A.
 Newton, Bean & Mitchell Dudley Hill, Bradford
 Pollock, Macnab & Highgate Shettleston, Glasgow
 Salters Limited .. Parkstone, Dorset.
 Tangyes Limited .. Birmingham
 Universal Valve & Chemical Accessories Co. Dudley Hill, Bradford

Grabs.

Goodacre, Wm., & Sons, Ltd. Victoria Docks, E. 16
 Priestman Bros., Ltd. .. Holderness Foundry, Hull
 Westwood Joseph, & Co., Ltd. Napier Yard, Millwall, B.
 Wilson John H., & Co. .. Dock Rd., Birkenhead

Graphite (Lubricating, &c.).

Dixon, Joseph, Crucible Co. 28, Victoria St., S.W. 1
 Everitt & Co., Ltd. .. 40, Chapel St., Liverpool
 Graphite Products, Ltd. .. 218-220, Queen's Rd., Battersea, S.W. 8

Grinding Mills.—(See also Disintegrators.)

Allen Edgar, & Co., Ltd. .. Sheffield
 Christy & Norris, Ltd. .. Chelmsford, Essex.
 Fletcher George, & Co., Ltd. Litchurch, Derby
 Hadfields Limited .. Hecla Works, Sheffield
 Hardy & Padmore, Ltd. .. Worcester
 Johnson Wm., & Sons (Leeds), Ltd. .. Armley, Leeds
 Marsden H. R., Ltd. .. Soho Foundry, Leeds
 Marshall, Sons & Co., Ltd. Gainsborough
 Patent Lightning Crusher 148, Rosebery Ave., Gray's Inn Rd., E.C.
 Smeith, F. L., & Co., Ltd. 20, Essex St., W.C. 2
 Wood Hugh, & Co., Ltd. 65, Fenchurch St., E.C.

Grinding and Polishing Machinery.

Beyer, Peacock & Co., Ltd. Manchester
 Buck & Hickman, Ltd. .. 2 & 4, Whitechapel Rd., E. 1
 Churchill Chas., & Co., Ltd. 9-15, Leonard St., Finsbury, E.C.
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W. 1
 Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., S.W. 1
 Jones A. A., & Shipman, Ltd. .. East Park Rd., Leicester
 Morton & Weaver .. Cox St., Coventry
 Muir Wm., & Co., Ltd. .. Sherbourne St., Manchester
 Sterne L., & Co., Ltd. .. Crown Ironworks, Glasgow
 Swinney Bros., Ltd. .. Merpeth

Grinding and Polishing Machinery—Continued.

Universal Machinery Corporation, Ltd. .. 326, Old St. (Shoreditch), E.C.
 Ward H. W., & Co., Ltd. .. Selly Oak, Birmingham

Grinding and Polishing Wheels.—(See Emery Wheels.)

Universal Machinery Corporation, Ltd. .. 326, Old St., E.C. 4

Griststones.

Alldays & Onions, Ltd. .. Birmingham

Gunpowder and Gun-Cotton Machinery.

Taylor & Challen, Ltd. .. Birmingham

Guns and Gun Forgings.

Brown John, & Co., Ltd. .. Sheffield
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield
 Vickers Limited .. Sheffield

Gyroscopes.**Hammers (Drop).**

Brett's Patent Lifter Co., Ltd. Coventry
 Massey B. & S., Ltd. .. Openshaw, Manchester
 Platt Samuel, Ltd. .. Wednesbury

Hammers (Power).—(See also Steam Hammers.)

Alldays & Onions, Ltd. .. Birmingham
 Beaudry & Co., Inc. .. Boston, Mass., U.S.A.
 Cochran John (Barrhead), Ltd. .. Barrhead, nr. Glasgow.
 Consolidated Pneumatic Tool Co., Ltd. .. Egyptian House, 170, Piccadilly, W. 1
 Globe Pneumatic Engineering Co., Ltd. .. 1, Victoria St., Westminster, S.W.
 Ingersoll-Rand Co., Ltd. .. 165, Qn. Victoria St., B.C.
 Massey B. & S., Ltd. .. Openshaw, Manchester
 Player W. & J. .. Birmingham
 Thwaites Brothers, Ltd. .. Central House, Kingsway, W.C. 2
 United Hammer Co. .. Boston, Mass., U.S.A.
 Walber W. A., & Co. .. 38, Victoria St., S.W.

Hammers (Steam).—(See Steam Hammers.)**Handles (Tool).****Haulage Plants.—(See also Engines—Winding.)**

Barclay Andrew, Sons & Co., Ltd. .. Caledonia Wks., Kilmarnock, Scotland
 British Electric Plant Co., Ltd. .. 66, Carrick St., Glasgow
 Bullivant & Co., Ltd. .. 72, Mark Lane, E.C.
 Carron Co. .. Carron, Stirlingshire
 Heath Robert, & Low Moor, Ltd. .. Bradford, Yorkshire
 Heenan & Froude, Ltd. .. Worcester
 Higginbottom & Mannock, Ltd. .. Crown Ironworks, West Gorton, Manchester
 Lidgerwood Ltd. .. Friars House, New Broad St., E.C.
 Marshall, Sons, & Co., Ltd. Gainsborough
 Napier Bros., Ltd. .. 130, Hyde Park St., Glasgow, W.
 Pratchitt Bros. .. Denton Ironworks, Carlisle
 Robey & Co., Ltd. .. Lincoln
 Ruston & Hornsby, Ltd. .. Sheaf Ironworks, Lincoln
 Uskside Iron Works .. Newport, Mon.
 Walker Bros. (Wigan), Ltd. .. Pagefield Iron Works, Wigan

Heating Apparatus.

Brightside Foundry & Engineering Co., Ltd.	Sheffield
Dallow, Lambert & Co., Ltd.	28, King St., Leicester
Davidson & Co., Ltd.	Belfast
Horne Engineering Co.	35, Pitt St., Glasgow
Keith James, & Blackman, Co., Ltd.	27, Farringdon Avenue, E.C.
Musgrave & Co., Ltd.	Belfast
Royles, Ltd.	Irlam, nr. Manchester
Simon-Carves, Ltd.	Manchester
Standard & Oswald Stott (Engineers), Ltd.	Leicester
Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., B.C.
Thermotank Co.	55, West Regent St., Glasgow
Tullis D. & J., Ltd.	Kilbowie Ironworks, nr. Glasgow
Westinghouse Brake & Saxby Signal Co., Ltd.	82, York Rd., King's Cross, N.
Wright's Forge and Eng. Co., Ltd.	Tipton, Staffs

Rings.**Hoisting Machinery.—(See also Cranes.)**

Anderson-Grice Co., Ltd.	Carnoustie, Scotland
Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Bedford Engineering Co.	Bedford, England
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
British Steel & Iron Exporters, Ltd.	22 & 23, Laurence Pountney Lane, E.C.4
Brown Hoisting Machinery Co.	Cleveland, Ohio, U.S.A.
Butler Samuel & Co., Ltd.	Stanningley, near Leeds
Campbell & Isherwood, Ltd.	Bootle, nr. Liverpool
Chaplin Alex., & Co.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Coles H. J., Ltd.	Derby
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly, W. 1
Craven Brothers (Manchester), Ltd.	Vauxhall Wks., Reddish
Davey, Paxman & Co., Ltd.	Stockport
Dempster Robert, & Sons, Ltd.	Colchester
Fellows Bros., Ltd.	Elland, Yorks.
Figee, Ltd.	Cradley Heath, Staffs.
Gibbins R. C., & Co.	Haarlem, Holland
Head, Wrightson & Co., Ltd.	Berkley St., Birmingham
Higginbottom & Mannock, Ltd.	Teesdale Iron Wks., Thornaby-on-Tees
Hill & Co. (Engineers), Ltd.	West Gorton, Manchester
Holt & Willetts	72 & 74, Victoria St., S.W. 1
Jack Alexander, & Co., Ltd.	Lion Works, Cradley Heath
Laurence, Scott & Co., Ltd.	Motherwell
Lidgerwood Ltd.	Norwich
Middleton Bros.	Friars House, New Broad St., E.C.
Napier Bros., Ltd.	Pudsey, Leeds
Northern Crane Works, Ltd.	130, Hyde park St., Glasgow, W.
Paterson Hughes Engineering Co., Ltd.	Walkerville, Ontario, Canada
Priestman Brothers, Ltd.	Charlotte Lane, Glasgow
	Holderness Fndry, Hull

Hoisting Machinery—Continued.

Ransomes, Sims & Jefferies, Ltd.	Ipswich
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Robey & Co., Ltd.	Lincoln
Royce, Ltd.	Trafford Pk., Manchester
Ruston & Hornsby, Ltd.	Sheaf Ironworks, Lincoln
Shepard Electric Crane & Hoist Co.	Montour Falls, New York, U.S.A.
Tangy's Limited	Birmingham
Vaughan Crane Co., Ltd.	Openshaw, Manchester
Waygood-Otis, Ltd.	Falmouth Rd., S.B.
Willetts Charles, Junr.	Cradley Heath, Staffs.
Witton-Kraemer Electric Tools and Hoist Works.	Witton, Birmingham.
Wonham, Bates & Goode, Inc.	3, London Wall Buildings, E.C.
Yale & Towne Mfg. Co.	15, Mallow St., Old St., E.C. 1.
Youngs	Birmingham

Hose Pipes and Couplings.

Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W. 1
Bell's United Asbestos Co., Ltd.	59½, Southwark St., S.B.
Belliss & Morcom, Ltd.	Birmingham
Globe Pneumatic Engineering Co., Ltd.	1, Victoria St., S.W. 1
Guest & Chrimmes	Rotherham
Merryweather & Sons, Ltd.	63, Long Acre, W.C.
Reddaway F. & Co., Ltd.	Pendleton, Manchester
Tullis John, & Son	St. Ann's Leather Wks., Glasgow
United States Rubber Co., Ltd.	47 & 48, Farringdon St., E.C. 4
Willcox W. H., & Co., Ltd.	32-38, Southwark St., S.E.
Woodite Company	Mitcham Common, Surrey
Worthington Simpson, Ltd.	Queen's House, King'sway, W.C. 2

Hydrants.

Alley & Macellan, Ltd.	Sentinel Works, Glasgow
Blakeborough J., & Sons, Ltd.	Woodhouse Wks., Brig-house, Yorks
Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Guest & Chrimmes	Rotherham

Hydraulic Machinery.

Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Carruthers J. H., & Co., Ltd.	Poimadie Ironwks., Glas-carlie
Cowans, Sheldon & Co., Ltd.	[now Vauxhall Wks., Reddish, Stockport
Craven Brothers (Manchester), Ltd.	Sheffield
Davy Brothers, Ltd.	Bon Accord Wks., Yoker, [Glasgow, W.
Drysdale & Co., Ltd.	Millwall, B.
East Ferry Road Engineering Works Co., Ltd.	Vulcan Foundry and Engine Works, Paisley
Fullerton, Hodgart and Barclay, Ltd.	Kilmarnock, N.B.
Glenfield & Kennedy, Ltd.	99, Queen Victoria St., B.C.
Hayward-Tyler & Co., Ltd.	

Hydraulic Machinery.—Continued.

Hollings & Guest, Ltd.	..	Thimble Mill Lane, Birmingham
Hydraulic Gears, Ltd.	..	Hammersmith, W.6
Leeds Engineering and Hydraulic Co., Ltd.	..	Rodley, nr. Leeds.
Marshall, Fleming & Co.	..	Motherwell, N.B.
Middleton Bros.	..	Pudsey, Leeds
Middleton Robert, & Co.	..	Sheepscar Foundry, Leeds
Musgrave Bros.	..	Crown Point Foundry, Leeds
Pulsometer Engineering Co., Ltd.	..	Nine Elms Ironworks, Reading
Rees Roturbo Manufacturing Co., Ltd.	..	Wolverhampton
Rice & Co. (Leeds), Ltd.	..	Elland Rd., Leeds
Rose, Downs & Thompson, Ltd.	..	Old Foundry, Hull
Smith Hugh, & Co., Ltd.	..	Possil Engine Works, Glasgow
Stewart Duncan, & Co., Ltd.	..	London Rd. Ironworks, Glasgow
Tangyes Limited	..	Birmingham

Hydraulic Presses.—(See also Forging Presses.)

Arrol Sir William, & Co., Ltd.	..	Dalmarnock Ironworks, Bridgeton, Glasgow
Bailey Sir W. H., & Co., Ltd.	..	Salford, Manchester
Berry Henry, & Co., Ltd.	..	Croydon Works, Leeds
Bessemer Hy., & Co., Ltd.	..	Sheffield
Davy Brothers, Ltd.	..	Sheffield
East Ferry Road Engineering Works Co., Ltd.	..	Millwall, B.
Fawcett, Preston & Co., Ltd.	..	Liverpool
Fledding & Platt, Ltd.	..	Gloucester
Hadfields Limited	..	Hecla Works, Sheffield
Hayward-Tyler & Co., Ltd.	..	99, Queen Victoria St., B.C.
Hollings & Guest, Ltd.	..	Thimble Mill Lane, Birmingham
Holt & Willetts	..	Lion Wks., Cradley Heath
Leeds Engineering & Hydraulic Co., Ltd.	..	Rodley, nr. Leeds.
Manlove, Allott & Co., Ltd.	..	Nottingham
Middleton Robert, & Co.	..	Sheepscar Foundry, Leeds
Musgrave Bros.	..	Crown Point Foundry, Leeds
Piggott Thos., & Co., Ltd.	..	Springhill, Birmingham
Pleck Foundry Co., Ltd.	..	Walsall
Rice & Co. (Leeds), Ltd.	..	Elland Rd., Leeds
Rose, Downs & Thompson, Ltd.	..	Old Foundry, Hull
Smith Hugh, & Co., Ltd.	..	Possil Engine Works, Glasgow
Stewart Duncan, & Co., Ltd.	..	London Rd. Ironworks, Glasgow
Stothert & Pitt, Ltd.	..	Bath
Tangyes Limited	..	Cornwall Wks., Birmingham
Taylor & Challen, Ltd.	..	Birmingham
Waygood-Otis, Ltd.	..	Falmouth Rd., S.B.

Hydraulic Rams.

Bailey Sir W. H., & Co., Ltd.	..	Salford, Manchester
Keith James, & Blackman Co., Ltd.	..	27, Farringdon Av., E.C.

Hydro-Extractors.—(See Centrifugal Drying Machines.)**Hydrokineters and Temperature Equalisers.**

Brundrit Joseph	..	14, Water St., Liverpool
Weir G. & J., Ltd.	..	Holm Foundry, Cathcart, Glasgow

Ice-Making Machines.—(See also Refrigerating Machinery.)

Allen W. H., Sons, & Co., Ltd.	..	Queen's Engineering Works, Bedford
Escher, Wyss & Co.	..	20, Grosvenor Gardens, S.W. 1.
Hall J. & E., Ltd.	..	Dartford Ironworks, Kent
Mirrlees Watson Co., Ltd.	..	Scotland St., Glasgow
Pontifex & Wood, Ltd.	..	Union Foundry, Derby
Pulsometer Engineering Co., Ltd.	..	Nine Elms Ironworks, Reading
Seagers, Ltd.	..	Dartford [gow
Sterne L., & Co., Ltd.	..	Crown Ironworks, Glasgow
West H. J., & Co., Ltd.	..	72-74, Grays Inn, W.C. 1

Igniters (Electric).

Lodge Bros., & Co.	..	Rugby
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Incandescent Lamps.

British Thomson-Houston Co., Ltd.	..	Rugby
Electric Lamp Manufacturers' Association of Great Britain, Ltd.	..	25, Bedford Sq., W.C. 1

India-rubber Goods.—(See also Ebonite, and Woodite for Steam, &c., Packings.)

Bell's United Asbestos Co., Ltd.	..	593, Southwark St., S.B.
Reddaway F., & Co., Ltd.	..	Pendleton, Manchester
United States Rubber Co., Ltd.	..	47 and 48, Farringdon St., E.C. 4
Woodite Company	..	Mitcham Common, Surrey

Indicators and Indicator Gear (Steam and Gas Engine).

Bailey Sir W. H., & Co., Ltd.	..	Salford, Manchester
Casartelli J., & Son	..	18, Brown St., Manchester
Crosby Valve & Engineering Co., Ltd.	..	41 & 42, Foley St., W. 1
Dobbie, McInnes & Clyde, Ltd.	..	57, Bothwell St., Glasgow
Hannan & Buchanan	..	75, Robertson St., Glasgow
Negretti & Zambra	..	38, Holborn Viaduct, B.C.

Injectors.

Bailey Sir W. H., & Co., Ltd.	..	Salford, Manchester
Davies & Metcalfe, Ltd.	..	Romley, Manchester
Dempster, Moore & Co., Ltd.	..	49, Robertson St., Glasgow
Green & Boulding, Ltd.	..	162A, Dalston Lane, E. 8
Gresham & Craven, Ltd.	..	Manchester
Lunken Company, Ltd.	..	35, Great Dover St., S.B.
Manlove, Allott & Co., Ltd.	..	Nottingham
Manning, Maxwell & Moore, Inc.	..	New York
White's Injectors, Ltd.	..	Pendleton, Manchester
Willcox W. H., & Co., Ltd.	..	32 to 38, Southwark St., S.E.

Inks.

Halden J., & Co., Ltd.	..	8, Albert Sq., Manchester
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Instruments (Electrical, Surveying, Testing, &c.).

Alexander George H., Machinery, Ltd. . . .	Coleshill St., Birmingham
Bassett-Lowke, Ltd. . . .	Northampton.
British Thomson-Houston Co., Ltd. . . .	Rugby
Budenberg Gauge Co., Ltd. . . .	Broadheath, nr. Manchester
Cooke, T., & Sons, Ltd. . . .	Buckingham Works, York
Ellison, George	Birmingham
Halden J., & Co., Ltd. . . .	8, Albert Sq., Manchester
Heath & Co., Ltd. . . .	New Eltham, S.E. 9
Lea Recorder Co., Ltd. . . .	28, Deansgate, Manchester
Michell Bearings, Ltd. . . .	3, Central Buildings, Westminster, S.W. 1
Negretti & Zambra	28, Holborn Viaduct, E.C. 4
Shore Instrument & Mfg. Co. Société Genevoise d'In- struments de Physique	New York 95, Queen Victoria St., E.C. 4
Thornton A. G., Ltd. . . .	13, King St. West, Manchester

Insulating Materials.

Barrett & Elers, Ltd. . . .	Wallis Rd., Hackney Wick, E. 9
Newall's Insulation Co., Ltd. . . .	Newcastle-on-Tyne
Wiggins F., & Sons	102 and 103, Minorities, B.
Woodite Company	Mitcham Common, Surrey

Insurance Companies.—(See also Boiler Inspection & Insurance Societies.)**Iron Founders.—(See Castings, Iron.)****Iron Merchants.**

Birch John, & Co., Ltd. . . .	2, London Wall Bldgs., Liverpool
Henderson & Glass	B.C.
Hughes, W. R.	94, Market St., Manchester

Iron (Pig).

Butterley Co., Ltd. . . .	Derby
Clay Cross Co., Ltd. . . .	Clay Cross, Derbyshire
Glasgow Iron & Steel Co., Ltd. . . .	Wishaw Iron and Steel Works, Wishaw

Iron and Steel Bars.—(See Bars—Iron and Steel.)**Iron and Steel Buildings.—(See Structural Engineering.)****Iron and Steel Works (Plant for).—(See also Crucibles, Cupolas, Forging Machines, Hammers—Power, Presses—Power.)**

Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Berry Henry, & Co., Ltd. . . .	Croydon Works, Hunslet, Leeds
Craig & Donald, Ltd. . . .	Johnstone, nr. Glasgow
Dalglish A. & W.	Pollokshaws, Glasgow
Davy Brothers, Ltd. . . .	Sheffield
Dowson & Mason Gas Plant Co., Ltd.	Levenshulme, Manchester
Fisher, Humphries & Co., Ltd.	Atlas Works, Pershore
Fraser & Chalmers En- gineering Works	Erith, Kent

Iron and Steel Works (Plant for)—Continued.

Galloways, Ltd.	Manchester
General Electric Co., Ltd. . . .	Magnet House, Kingsway, W.C. 2
Harvey Engineering Co., Ltd. . . .	Glasgow
Head, Wrightson & Co., Ltd. . . .	Thornaby-on-Tees
Heenan & Froude, Ltd. . . .	Manchester
Hollings & Guest, Ltd. . . .	Thimble Mill Lane, Birmingham
Hordern & Mason	St. Mary's, Birmingham
Lilleshall Co., Ltd.	Oakengates, Shropshire
Marsden H. R., Ltd.	Soho Foundry, Leeds
Metropolitan-Vickers Elec- trical Co., Ltd.	Trafford Park, Manchester
Musgrave Bros.	Crown Point, Leeds
Rice & Co. (Leeds), Ltd. . . .	Elland Rd., Leeds
Swedish General Electric, Ltd.	5, Chancery Lane, W.C. 2
Tickle John, & Co., Ltd. . . .	West Bromwich
Wellman Smith Owen Eng. Corp.	King's House, Kingsway, W.C. 2
Yates & Thom, Ltd.	Canal Works, Blackburn

Jacks (Lifting).

Dempster, Moore & Co. . . .	49, Robertson St., Glasgow
Gibbins R. C., & Co.	Berkley St., Birmingham
Holt & Willetts	Lion Wks., Cradley Heath
Morris, Herbert, Ltd.	Loughborough, England
Tangyres Limited	Birmingham
Willetts Charles, Junr., Ltd. . . .	Cradley Heath, Staffs.
Wonham Bates & Goode, Inc. . . .	3, London Wall Build-ings, E.C.
Younge	Ryland St. Wks., B'ham

Jointing Materials.—(See also Asbestos Goods, &c., India-rubber Goods, and Packing—Engine & Hydraulic.)

Beldam Packing & Rubber Co., Ltd.	29, Gracechurch St., B.C. 3
Bell's United Asbestos Co., Ltd.	59½, Southwark St., S.R.
British Fibrocement Works, Ltd.	Erith, Kent
Graphite Products, Ltd. . . .	218-220, Queen's Rd., Battersea, S.W. 8
Hobdell, Way & Co., Ltd. . . .	St. John's House, 124-5, Minorities, B.
House F., & Co.	68, Falkner St., Liver- pool

Metallic Manufacturing Co., Ltd.	Ardrissan
Notcutt Walter P., Ltd. . . .	8, White St., B.C.
Thomas & Bishop	37, Tabernacle St., B.C.

Joints, Rolled (Iron and Steel)

Dunkerley C. C., & Co., Ltd.	Store St., Manchester
Dunlop & Ranken, Ltd. . . .	9, Park Lane, Leeds
Partington Steel & Iron Co., Ltd.	Irlam, Manchester

Kilns.

Fletcher George, & Co., Ltd. . . .	Litchurch, Derby
Smidth, F. L., & Co., Ltd. . . .	20, Essex St., W.C. 2

Laboratories and Testing Plants.**Ladders and Steps.**

Ladies.

Clayton Son, & Co., Ltd. .. Hunslet, Leeds
 Constructional Engineering } Charles Henry St., Bir-
 Co., Ltd. .. } mingham
 McNeil C., Ltd. Kinning Park Hydraulic
 Forge, Glasgow

Lamps.—(See also Electric Lighting & Power Plant, and Incandescent Lamps.)

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.
 British Thomson-Houston Co., Ltd. .. Rugby
 Electric Lamp Manufacturers' Association of Great Britain, Ltd. .. 25, Bedford Sq., W.C.1
 General Electric Co., Ltd. .. Magnet House, Kingsway, W.C. 2
 Guest & Chrimes .. Rotherham
 Pope's Electric Lamp Co., } Hythe Rd., Willesden,
 Ltd. N.W. 10
 Wells A. C., & Co. .. 102, Midland Rd., N.W.

Lathes.—(See Machine Tools.)**Launches & Yachts.—(See also Motor Boats.)**

Alley & Maclellan, Ltd. .. Sentinel Works, Glasgow
 Chaplin Alex., & Co. .. Glasgow
 Cochran & Co. (Annan), Ltd. .. Annan, N.B.
 Day, Summers & Co., Ltd. .. Southampton
 Escher, Wyss & Co. .. 20, Grosvenor Gardens, S.W. 1
 Fleming & Ferguson, Ltd. .. Paisley, N.B.
 McKie & Baxter .. Govan, Glasgow
 Normand Augustin .. 67, Rue du Perrey, Le Havre, France
 Ross & Duncan .. Whitefield Wks., Glasgow
 Simons W., & Co., Ltd. .. Renfrew, N.B.
 Thornycroft J. I., & Co., Ltd. .. Southampton
 Vosper & Co., Ltd. .. Portsmouth
 Yarrow & Co., Ltd. .. Glasgow

Laundry Machinery.—(See also Centrifugal Drying Machines, and Drying Apparatus.)

Manlove, Allott & Co., Ltd. .. Nottingham [Glasgow
 Tullis D. & J., Ltd. .. Kilbowie Ironworks, nr.

Leathers (Hydraulic, &c.).

Leathers Company (Altrincham), Ltd. .. Altrincham, near Manchester

Lifts.

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester
 Berry Henry, & Co., Ltd. .. Croydon Works, Leeds
 Gibbins R. C., & Co. .. Berkeley St., Birmingham
 Holt & Willetts .. Lion Wks., Cradley Heath
 Rice & Co. (Leeds), Ltd. .. Elland Rd., Leeds
 Steven, A. P. .. 181, St. James' Rd., Glasgow

Tangyes Limited .. Birmingham
 Waygood-Otis, Ltd. .. Falmouth Rd., S.B.
 Willetts Charles, Junr., } Colonial Works, Cradley
 Ltd. } Heath, Staffs.

Light Railways.—(See Railways—Light and Portable.)**Lights.—(See Barges.)****Lighting Apparatus.—(See also Electric Lighting Plant.)**

Allen-Liversidge, Ltd. .. 106, Victoria St., S.W.
 Carron Company .. Carron, Stirlingshire
 Keith James, & Blackman } 27, Farringdon Avenue,
 Co., Ltd. E.C.
 Wells A. C., & Co. .. 102, Midland Rd., N.W.

Lightning Conductors.

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester

Liquid Fuel.

Ham, Baker & Co., Ltd. .. Langley Green, Birmingham
 Kermodes Ltd. .. 35, The Temple, Dale St., Liverpool
 Whites Patent Oil Burning } Shadwell St., South
 Co., Ltd. Shields

Lock Nuts and Nut-Locking Appliances.

Baviliss, Jones & Bayliss, Ltd. .. Wolverhampton
 Griplock Washer, Ltd. .. 6A, Tudor St., E.C. 4
 Grover & Co., Ltd. .. Carpenter's Rd., Stratford, E.
 Positive Lock Washer Co. .. 118-122, James Watt St., Glasgow
 Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.

Locomotive Engines.—(See Engines, Locomotive.)**Locomotives (Mountings for).**

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester
 Barclay Andrew, Sons & Co., } Caldonia Works, Kil-
 Ltd. marnock
 Hopkinson J., & Co., Ltd. .. Huddersfield
 Lunken Co., Ltd. .. 35, Great Dover St., S.B.

Looms.**Lubricants (Cutting).**

Sterns, Ltd. .. 16, Finsbury Sq., E.C.

Lubricants and Oils.

Acheson E. G., Ltd. .. 40, Wood St., S.W. 1
 Bell's United Asbestos Co., Ltd. .. 59½, Southwark St., S.E.
 Graphite Products, Ltd. .. 218-220, Queen's Rd., S.W. 8
 Mountford Fredk., Ltd. .. Old Cross St., Birmingham
 Sozol, Ltd. .. 20, Cophall Ave., E.C. 2
 Sterns, Ltd. .. 56, Finsbury Sq., E.C.
 Texas Oil Company, Ltd. .. 15-19, Kingsway, W.C.2
 Thomas & Bishop .. 37, Tabernacle St., E.C.
 Tranter W. J., Ltd. .. Tipton, Staffs.
 Trier Bros., Ltd. .. 36, Victoria St., S.W. 1
 Willcox W. H., & Co., Ltd. .. 32-38, Southwark St., S.E.

Lubricators.

Bailey Sir W. H., & Co., Ltd. .. Salford, Manchester
 Bell's United Asbestos Co., Ltd. .. 59½, Southwark St., S.E.
 British Steam Specialities, Ltd. .. Bedford St., Leicester
 Butterworth Bros., Ltd. .. Manchester
 Crosby Valve & Engineering Co., Ltd. .. 41 & 42, Foley St., W. 1
 Empire Engineering Co. (Manchester), Ltd. .. Salford, Manchester

Lubricators—Continued.

Lees T. & R.	Hollinwood, near Manchester
Lunken Co., Ltd.	35, Great Dover St., S.E.
Piggott Thos., & Co.	Springhill, Birmingham
Smith Bros. & Co. (Hysen), Ltd.	Nottingham
Steam Cylinder Lubricator Co., Ltd.	Gordon Works, Lower Broughton, Manch ^{ster}
Sterns, Ltd.	56, Finsbury Sq., E.C.
Tangyes Limited	Birmingham
Trier Brothers, Ltd.	36, Victoria St., S.W. 1
United Brassfounders & Engineers, Ltd.	Cornbrook, Manchester
Willcox W. H., & Co., Ltd.	32 to 38, Southwark St. S.E.

Machine Tools.—(See also Chucks, Second-hand Tools, &c., and Tools—Hand and Small.)

Archdale Jas., & Co., Ltd.	Ledsam St., Birmingham
Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W. 1
Asquith William (1919), Ltd.	Park Works, Halifax
Associated British Machine Tool Makers, Ltd.	17, Grosvenor Gardens, S.W. 1
Backer, Spink, Lease & Co.	Shipley, Yorks
Bennie James, & Sons	Govan, Glasgow
Berry F., & Sons	Sowerby Bridge
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Bertrams Limited	Sciennes, Edinburgh
Betts Machine Co.	Rochester, New York, U.S.A.
Beyer, Peacock & Co., Ltd.	Gorton Foundry, Manchester
Buck & Hickman, Ltd.	2 and 4, Whitechapel Rd., E. 1
Bullard Machine Tool Co.	Bridgeport, Conn. U.S.A.
Burton, Griffiths & Co., Ltd.	64, Vauxhall Bridge Rd., S.W. 1
Butler Machine Tool Co., Ltd.	Victoria Ironworks, Halifax, Eng.
Cameron John, Ltd.	Oldfield Road Ironworks, Salford
Campbell & Isherwood, Ltd.	Bootle, nr. Liverpool
Campbells & Hunter, Ltd.	Dolphin Foundry, Leeds
Chambers, Scott & Co., Ltd.	Motherwell
Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., E.C.
Clifton & Baird, Ltd.	Johnstone, Scotland
Clifton & Waddell	Johnstone, nr. Glasgow
Coats Machine Tool Co., Ltd.	14, Palmer St., S.W. 1
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly, W. 1
Cooke T., & Sons, Ltd.	Buckingham Works, York
Craig & Donald, Ltd.	Johnstone, nr. Glasgow
Craven Bros. (Manchester), Ltd.	Vauxhall Wks., Reddish, Stockport
Crockatt W., & Sons, Ltd.	64, Darnley St., Glasgow
Dave Bros., Ltd.	Glasgow
Davis & Primrose, Ltd.	Bangor Rd., Leith, N.B.
Dempster, Moore & Co., Ltd.	49, Robertson St., Glasgow
Drummond Bros., Ltd.	Engel Wks., nr. Guildford
Forbes Brothers	Doe St., Birmingham
Harvey G. & A., Ltd.	Govan, Glasgow, W.
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Herbert Alured, Ltd.	Coventry
Herbert Edward G., Ltd.	Levenshulme Manchester
Holbrook & Sons	44, Martin St., Stratford, E. 15

Machine Tools—Continued.

Jardine John	Deering St., Nottingham
Jones A.A., & Shipman, Ltd.	East Park Rd., Leicester
Jones & Lamson Machine Co.	9 & 10, Water Lane, Qn. Victoria St., E.C.
Kearns H. W., & Co., Ltd.	Broadheath, nr. Manchester
Kynoch, Ltd.	Witton, Birmingham
Lang J., & Sons	Johnstone, N.B.
Lloyd Richard, & Co.	Galton Works, Steelhouse Lane, Birmingham
Loudon Brothers, Ltd.	39, West Campbell St., Glasgow
Machinery & Steels, Ltd.	64 Great Eastern St., E.C. 2
Macnab John (Machinery), Ltd.	Mary St., Hyde
Maiden & Co., Ltd.	Hyde, Cheshire
Maycock Alex., W.	Chapel St., Stalybridge
Matterson Limited	Shawclough, Rochdale
Moorlands Engineering Co., Ltd.	Leek, Staffs.
Muir Wm., & Co., Ltd.	Sherbourne St., M ^{chester}
Musgrave Bros.	Crown Point F ^{ndry} , Leeds
Newbold, Walter, & Co., Ltd.	11-13, Huggin Lane, Queen Victoria St., E.C. 4
Niles-Bement-Pond Co.	111, Broadway, New York, U.S.A.
Niles-Bement-Pond Co.	23 & 25, Victoria St., S.W.
Noble & Lund, Ltd.	Felling, nr. Newcastle-on-Tyne
Parkinson J., & Son	Shipley, Yorkshire
Pearn Frank, & Co., Ltd.	Manchester
Pollock & Macnab, Ltd.	Bredbury, nr. Stockport
Redman C., & Sons	Kingston, Halifax
Rhodes Mfg. Co.	Hartford, Conn., U.S.A.
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Ryerson Joseph T., & Son	Chicago, Ill., U.S.A.
Shanks Thomas, & Co.	Johnstone
Smith, Barker & Willson, Ltd.	Halifax
Smith & Coventry, Ltd.	Manchester [Glasgow]
Smith Hugh, & Co., Ltd.	Possil Engine Works, Range Bank, Halifax
Swift George, & Sons, Ltd.	Oerlikon, Switzerland
Swiss Machine Tool Works	Birmingham
Tangyes Limited	Bartholomew Square, Birmingham
Taylor Charles (Birmingham), Ltd.	Birmingham
Timbrell & Wright Machine Tool & Eng. Co., Ltd.	Birmingham
Tullis D. & J., Ltd.	Kilbowie Ironworks, nr. Glasgow
Universal Machinery Corporation, Ltd.	326, Old St., E.C. 2
Vibration Speciality Co.	Harrison Buildings, Philadelphia, U.S.A.
Vickers, Ltd.	Erith
Walber W. A., & Co.	38, Victoria St., S.W.
Ward H. W., & Co., Ltd.	Selly Oak, Birmingham
Ward Thos. W., Ltd.	Albion Works, Sheffield
Webster & Bennett, Ltd.	Foreshill, Coventry
Wharton H., Ltd.	Station Rd., Reddish, Stockport
Wheeler Manufacturing Co., Ltd.	Wellington, Salop
Wilkins & Mitchell	Darlaston, S. Staffs.
Winn Charles, & Co.	Granville Place, Birmingham
Wolsley Motors, Ltd.	York St., Westminster, S.W.

Machining for the Trade.

Enstone T. C., & Co. (Succ.) Evelyn Rd., Greet, Bir-
cessors) Ltd. mingham
Heath & Co., Ltd. New Eltham, S.E. 9
Romer & Russell, Ltd. .. Queen's Wharf, Ham-
mersmith
Wills, W. & F., Ltd. .. Bridgewater

Magnets.—(See Separators, Magnets, &c.).**Magnets (Lifting).**

Igranic Electric Co., Ltd. 147, Qn. Victoria St., E.C.
Smith Thos. & Sons (Rod-
ley), Ltd. Rodley, near Leeds
Westminster Tool & Elec- 116 Putney Bridge Rd.,
tric Co. Putney, S.W. 13
Witton-Kraemer Electric
Tool & Hoist Works Witton, Birmingham
Worham, Bates & Goode, } 3, London Wall Build-
Inc. ings, E.C.

Magnets.**Manganese Steel Castings and Forgings.**

Allen Edgar, & Co., Ltd. .. Sheffield
Firth Thos. & Sons, Ltd. .. Norfolk Works, Sheffield
Hadfields Limited Heda Works, Sheffield
Osborn Samuel, & Co., Ltd. Clyde Steel Wks., Shef-
field

Steven & Struthers .. Kelvinhaugh, Glasgow

Manhole Doors.—(See also Boiler Manholes.)

Barr, Thompson & Co., Ltd. Kilmarnock, Scotland
McNeil C., Ltd. Glasgow

Manufacturers.—(See also Patent Law.)

Hunt Thomas, & Sons .. Bridge Rd., West Bat-
tersea, S.W. 11

Marine Auxiliaries.

Carron Company .. Carron, Stirlingshire

**Mathematical Instrument Makers.—(See Drawing In-
struments.)****Measuring Machines.—(See Micrometers.)****Mechanical Engineers (Consulting).**

Davey, Paxman & Co., Ltd. Colchester

Merchants (Machinery, &c.).

Birch John, & Co., Ltd. .. 2, London Wall Build-
ings, E.C.

Howden Overseas Trading } 105, St. Vincent St.,
Co., Ltd. Glasgow
Jennings Edward J. .. Westwalls, Newcastle-on-
Tyne

MacLellan P. & W., Ltd. 129, Trongate, Glasgow
Redpath, Brown & Co., } 2, St. Andrew Square,
Ltd. Edinburgh
Willcox W. H., & Co., Ltd. 32-38, Southwark St., S.B.

Metallic Packing.

Green & Boulding, Ltd. .. 162A, Dalston Lane, E.8
Lancaster & Tongue, Ltd. .. Pendleton, nr. Manchestr.
United States Metallic }
Packing Co., Ltd. Soho Works, Allerton
Rd., Bradford

Metals (Alloy Steels).

Henderson, John M., & Co. King's Works, Aberdeen

Metals (Anti-Friction).

Atlas Metals & Alloys, Ltd. 52, Qn. Victoria St., B.C.
Bull's Metal & Melloid Co. Yoker, near Glasgow.
Magnolia Anti-Friction Metal
Co. of Great Britain, Ltd., 49, Qn. Victoria St., E.C.
McKechnie Bros., Ltd. .. Birmingham
Richards J. H., & Co., Ltd. Cato St. North, Saitley,
Birmingham

Metals (Phosphor Alloys, &c.).

Armstrong Sir W. G., } 8, Great George St.,
Whitworth, & Co., Ltd. } S.W. 1
Atlas Metals & Alloys Co., Ltd. 52, Qn. Victoria St., F.C.
Billington & Newton, Ltd. Longport, Staffordshire
Bolton Thomas, & Sons,
Ltd. 57, Bishopsgate, E.C. 2
Bull's Metal & Melloid Co.,
Ltd. Yoker, near Glasgow
Delta Metal Co., Ltd. .. East Greenwich, S.B.
Everitt & Co., Ltd. .. 40, Chapel St., Liverpool
Lunken Company, Ltd. .. 35, Great Dover St., S.E.
McKechnie Brothers, Ltd. Rotton Park St., Bir-
mingham

Magnolia Anti-Friction }
Metal Co., of Great } 49, Queen Victoria St., E.C.
Britain, Ltd.

Muntz P. H., & Co., Ltd. .. Alexandra Works, West
Bromwich

Pegler Bros. & Co. (Glasgow),
Ltd. Anderston, Glasgow
Steven & Struthers .. Kelvinhaugh, Glasgow

Vickers Limited .. Vickers' House, Broad-
way, Westminster, S.W.
Weir, G. & J. Ltd. .. Cathcart, Glasgow

Meters.

Dunglison, B. .. 9, Oxford St., W.
Glenfield & Kennedy, Ltd. Kilmarnock, N.B.
Guest & Chrimes .. Rotherham
Kent Geo., Ltd. .. 199, High Holborn, W.C.

Lea Recorder Co., Ltd. .. 28, Deansgate, M'chester
Siemens Bros. & Co., Ltd. Woolwich, S.E. 18
Worthington-Simpson, Ltd. Queen's House, Kings-
way, W.C. 2

Miner Merchants

Wiggins F., & Sons .. 102, 103 & 104, Minorities, B.

Micrometers.

Armstrong Sir W. G., Whit- } 8, Great George St.
worth & Co., Ltd. .. } S.W. 1
Bassett-Lowke, Ltd. .. Northampton

Buck & Hickman, Ltd. .. 2 & 4, Whitechapel Rd.,
E. 1

Notcutt Walter P., Ltd. .. 8, White St., Moorfields,
E.C. 2

Precision Gauges, Ltd. .. Wrentham St., Birming-
ham

Shore Instrument & Mfg. Co. New York
Société Genevoise d'In- } 95, Queen Victoria St.,
struments de Physique } E.C. 4

Williams J. H., & Co. .. 91, Richard St., Brooklyn,
New York, U.S.A.

Mill Gearing.—(See *Wheels—Geared; also Shafting and Shaft Fittings.*)**Mill Machinery (Flour, Corn and Rice).**

Blackstone & Co., Ltd.	..	Rutland Wks., Stamford
Marshall, Sons & Co., Ltd.	..	Gainsborough
Ransomes, Sims & Jefferies, Ltd.	..	Ipswich
Robinson T., & Son, Ltd.	..	Rochdale
Ruston & Hornsby, Ltd.	..	Sheaf Ironworks, Lincoln

Milling Cutters and Cutter Blanks.

Apex Steel Company, Ltd.	..	Penistone Rd., Sheffield
Armstrong Sir W. G., Whitworth & Co., Ltd.	..	8, Great George St., S.W. 1
Brook Tool Mfg. Co., Ltd.	..	Belgrave Rd., Birmingham
Chatwin Thomas, Ltd.	..	Great Tindal St., Birmingham
Churchill Chas., & Co., Ltd.	..	9 to 15, Leonard St., E.C.
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Forbes Bros.	..	Doe St., Birmingham
Muir Wm., & Co., Ltd.	..	Sherbourne St., Manchester
Vickers Ltd.	..	Broadway, S.W. 1

Milling Machines.—(See *Machine Tools.*)**Mills (Paint, Oil, Mortar, &c.).**

Blackstone & Co., Ltd.	..	Rutland Works, Stamford
Pratchitt Brothers.	..	Denton Ironwks., Carlisle
Smedley Bros., Ltd.	..	Belpy, Derbyshire

Mining Machinery.—(See also *Colliery Plant.*)

Allen Edgar, & Co., Ltd.	..	Sheffield
Allen W. H., Sons & Co., Ltd.	..	Bedford
Bailley Sir W. H., & Co., Ltd.	..	Salford, Manchester
Barclay Andrew Sons & Co., Ltd.	..	Caledonia Wks., Kilmarnock, Scotland
Clay Cross Co., Ltd.	..	Clay Cross, near Chesterfield (Derby)
Coles H. J., Ltd.	..	London Crane Works
Consolidated Pneumatic Tool Co., Ltd.	..	Egyptian House, 170, Piccadilly, W.
Davey, Paxman & Co., Ltd.	..	Colchester
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Fletcher George, & Co., Ltd.	..	Litchurch, Derby
Fowler J., & Co. (Leeds), Ltd.	..	Leeds
Hadfields Limited.	..	Hecla Works, Sheffield
Head, Wrightson & Co., Ltd.	..	Teesdale Ironwks., Thornaby-on-Tees
Heenan & Froude, Ltd.	..	Worcester
Jeffrey Manufacturing Co. Johnson Wm., & Sons (Leeds), Ltd.	..	Columbus, Ohio, U.S.A.
Marsden H. R., Ltd.	..	Armley, Leeds
Marshall, Sons & Co., Ltd.	..	Soho Foundry, Leeds
Pulsmeter Eng. Co., Ltd.	..	Gainsborough
Ransomes, Sims & Jefferies, Ltd.	..	Nine Elms Ironworks, [Reading]
Rees Roturbo Manufacturing Co., Ltd.	..	Ipswich
Robey & Co., Ltd.	..	Wolverhampton
Ruston & Hornsby, Ltd.	..	Lincoln
Salterns, Limited	..	Lincoln and Grantham
Sandycroft, Ltd.	..	Parkstone, Dorset
Standard & Oswald Stott (Engineers), Ltd.	..	Chester
Tangye Limited	..	Leicester.
Uskside Engineering Co., Ltd.	..	Birmingham
	..	Newport, Mon.

Mining Machinery—Continued.

Vickers, Ltd.	..	Barrow-in-Furness
Walker Bros. (Wigan), Ltd.	..	Pagefield Iron Works, Wigan
Worthington-Simpson, Ltd.	..	Queen's House, Kingsway, W.C.

Mint Machinery.

Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Taylor & Challen, Ltd.	..	Birmingham

Mixers.

Christy & Norris, Ltd.	..	Chelmsford, Essex
Davy Brothers, Ltd.	..	Sheffield
Hardy & Padmore, Ltd.	..	Worcester
Koehring Company	..	Milwaukee, Wisconsin, U.S.A.
Ransome's Machinery Co., (1920) Ltd.	..	14 and 16, Grosvenor Gardens, Westminster, S.W.
Stothert & Pitt, Ltd.	..	Orchard St., Westminster, S.W. 1

Model Makers.

Rosser & Russell, Ltd.	..	Queen's Wharf, Hammer-smith
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Motor Boats.—(See also *Launches & Yachts.*)

Thornycroft J. I., & Co., Ltd.	..	Smith Sq., Westminster, S.W. 1
Vosper & Co., Ltd.	..	Portsmouth
White J. Samuel, & Co., Ltd.	..	East Cowes, Isle of Wight
Wolseley Motors, Ltd.	..	York St., Westminster, S.W.

Motor Cars.—(See *Motor Vehicles.*)**Motor Starters and Accessories.**

Booth Joseph, & Bros., Ltd.	..	Rodley, Leeds
British Thomson-Houston Co., Ltd.	..	Rugby
Brook, Hirst & Co., Ltd.	..	Chester
Electric Control, Ltd.	..	Bridgeton, Glasgow
Electro-Mechanical Brake Co., Ltd.	..	West Bromwich
Ellison, George	..	Perry Bar, Birmingham
Holmes J. H., & Co.	..	Newcastle-upon-Tyne
Igranic Electric Co., Ltd.	..	147, Queen Victoria St., E.C.
Metropolitan-Vickers Electrical Co., Ltd.	..	Traford Park, Manchester
Precision Gauges, Ltd.	..	Chester
	..	Wrentham St., Birmingham
Sandycroft Limited	..	Chester

Motor Vehicles.

Albion Motor Car Co., Ltd.	..	Scotstoun, Glasgow
Alley & Maclellan, Ltd.	..	Sentinel Works, Glasgow
Avonside Engine Co., Ltd.	..	Bristol
Broom & Wade, Ltd.	..	High Wycombe
Hall J. & B., Ltd.	..	10, St. Swithin's Lane, B.C.
Leyland Motors, Ltd.	..	Leyland, Lancs.
Marshall, Sons & Co., Ltd.	..	Gainsborough
Robey & Co., Ltd.	..	Lincoln
Stewart Duncan, & Co., Ltd.	..	Glasgow
Thornycroft J. I., & Co., Ltd.	..	Smith Square, Westminster, S.W. 1
Walker Brothers (Wigan), Ltd.	..	Pagefield Ironworks, Wigan
Wolseley Motors, Ltd.	..	York St., S.W.

Motors.—(See *Electric Motors*.)**Moulding Machines.**

Heath Robert, & Low
Moort, Ltd. Bradford, Yorkshire
Northgate Iron Works Co. .. Bury St. Edmunds, Suffolk

Wallwork Henry, & Co.,
Ltd. Manchester

Nail (Wire, &c.), Making Machinery.

Sleeper & Hartley (Inc.).. Worcester, Mass., U.S.A.

Name Plates.

United Metal Engraving } 40, High Bridge, New-
Co., Ltd. castle-on-Tyne

Non-Conducting Compositions.

Bell's United Asbestos Co.,
Ltd. 59½, Southwark St., S.E.
Kenyon Wm., & Sons, Ltd. .. Dukinfield, Manchester
Leroy F., & Co. 20, Gray St., B.
Newall's Insulation Co., Ltd. .. Newcastle-on-Tyne
Sutcliffe Bros. & Bryce, } Globe Works, Godley, nr.
Ltd. Manchester
Tranter W. J., Ltd. Tipton, Staffs

Nut-Making Machines.

Platt Samuel, Ltd. Wednesbury
Taylor & Challen, Ltd. .. Birmingham

Office Fittings, Furniture and Appliances.

Halden J., & Co., Ltd. 8, Albert Sq., Manchester
Kalamazoo Limited Northfield, Birmingham

Oil Cans.

Braime T. F., & Co., Ltd. .. Hunslet, Leeds
Kaye Jos., & Sons, Ltd. Lock Works, Leeds

Oil Extractors.

Alley & Maclellan, Ltd. Sentinel Works, Glasgow
Churchill C., & Co., Ltd. .. 9-15, Leonard St., E.C.
Kenyon Alexander, & Co. .. Victoria Bridge, Man-
chester

Paterson Engineering Co. .. 21, Windsor House,
Kingsway, W.C.2
Premier Cooler & Engineer-
ing Co., Ltd. Station Works, Shalford
Princepts & Co. nr. Guildford, Surrey
Royles Limited Sheffield
Worthington-Simpson, Ltd. .. Irlam, nr. Manchester
Queen's House, Kings-
way, W.C.2

Oil Filters and Coolers.

Griscom-Russell Co. 95, West St., New York,
U.S.A.

Heenan & Froude, Ltd. Worcester, England
Kenyon Alexander, & Co. .. Victoria Bridge, Man-
chester

Kermodes Ltd. 35, The Temple, Dale
St., Liverpool

Todd Shipyards Corpora- } 25, Broadway, New
tion York, U.S.A.

Wells A. C., & Co. 102, Midland Rd., St.
Pancras, N.W.

Oil Fuel.—(See *Liquid Fuel*.)**Oil Fuel Burners.**

Kermodes, Ltd. 35, The Temple, Dale
St., Liverpool

Todd Shipyards Corpora- } 25, Broadway, New York,
tion U.S.A.

Oil Mill and Refining Machinery.

Craig A. F., & Co., Ltd. .. Paisley, Scotland
McClintie-Marshall Pro- } Church St., New York,
ducts Co. U.S.A.

Manlove, Allott & Co., Ltd. .. Nottingham
Middleton Robert, & Co. .. Sheepshear F'ndry, Leeds

Musgrave Brothers Crown Point Foundry,
Rose, Downs & Thompson, [Leeds
Ltd. Old Foundry, Hull

Oils.—(See *Lubricants and Liquid Fuel*.)**Organisation (Works).****Ore Crushing Machinery.**—(See also *Disintegrators, and Stonebreakers*.)

Allen Edgar, & Co., Ltd. .. Sheffield
Bradley Pulverizer Co. .. 37, Walbrook, E.C.
Davey, Paxman & Co., Ltd. .. Colchester
Hadfields Limited Hrcia Works, Sheffield
Marsden H. R., Ltd. Sobo Foundry, Leeds
Robey & Co., Ltd. Lincoln
Ruston & Hornsby, Ltd. .. Grantham
Sandycroft Limited Chester
Smith F. L., & Co., Ltd. .. 20, Essex St., W.C.2
Sturtevant Engineering Co., } 147, Queen Victoria St.,
Ltd. B.C.

Overalls, Gloves, &c., for Engineers.

Paisleys Ltd. 72-96, Jamaica St., Glas-
gow

Selwyn A. H., Ltd. 8, Lawrence Lane, E.C.2

Oxygen.—(See *Gases, Oxygen, and Welding and Cutting Plant*.)**Packing Cases and Packing Materials.****Packing (Engine and Hydraulic).**—(See also *Jointing Materials, Leathers (Hydraulic, &c.) and Metallic Packing*.)

Beldam Packing & Rubber } 29, Gracechurch St.,
Co., Ltd. B.C.3

Bell's United Asbestos Co.,
Ltd. 59½, Southwark St., S.E.
Colchester

Davey, Paxman & Co., Ltd. .. 162a, Dalston Lane, E.8
Green & Boulding, Ltd. .. 38, Mair St., Glasgow

Lindsay R. B., & Co. Pendleton, Manchester
Reddaway F., & Co., Ltd.
Rose, Downs & Thompson,
Ltd. Old Foundry, Hull

Thomas & Bishop 37, Tabernacle St., E.C.
United States Metallic } Soho Wks., Allerton Rd.,
Packing Co., Ltd. Bradford

Walker James, & Co., Ltd. .. Lion Works, Poplar, E.
Willcox W. H., & Co., Ltd. .. 32-38, Southwark St., S.E.

Woodite Company Mitcham Common, Surrey

Paint Mill.—(See *Mills—Paint, Oil, Mortar &c.*)

Paints, Varnishes, &c.

Airostyle & Lithos, Ltd. . .	35, St. Bride St., E.C.
Bell's United Asbestos Co., Ltd. . .	599, Southwark St., S.E.
Bowman Robert, & Co., Ltd. . .	4, St. Nicholas Buildings, Newcastle-on-Tyne
Dixon Joseph, Crucible Co. . .	28, Victoria St., S.W. 1
Dixon's White, Ltd. . .	Albion Wharf, Bow, E.
Graphite Products, Ltd. . .	218-220, Queen's Rd., Battersea, S.W. 8
Hill W. W., Son & Wallace, Ltd. . .	Broughton, Manchester
Ironite Co., Ltd. . .	11, Old Queen St., Westminster, S.W. 1
Sozol Limited . . .	20, Copthall Avenue, E.C.2
Willes Dove Bitumastic, Ltd. . .	Newcastle-on-Tyne

Patent Agents.

Alexander E. P., & Son . .	306, High Holborn, W.C.
Andrews & Beaumont . .	29, Southampton Buildings, W.C.2
Hughes C. Lockett . .	24, Holborn, E.C.1
Jensen & Son . .	77, Chancery Lane, W.C.
King B. T. . .	146A, Queen Victoria St., E.C.4
Raworth John E. & Moss . .	75, Victoria St., S.W. 1
Sokal S. . .	1, Great James St., Bedford Row, W.C. 1

Patent Law (Manufacturers under).

Rosser & Russell, Ltd. . .	Queen's Wharf, Hammer-smith
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Pattern Makers.

Hull General Pattern Mak- ing Works . . .	58, Strawberry St., Dry- pool, Hull
Kynoch, Ltd. . .	Witton, Birmingham

Pencils.—(See Drawing Instrument.)**Perforated Metals.**

Harvey G. A., & Co. . .	Greenwich Metal Works, (London), Ltd. . .
Hudson Thomas, Ltd. . .	Woolwich Rd., S.E.
	Sheepford Bridge, Coat- bridge

Permanent Way.—(See also Rails—Steel & Iron, and Railway & Contractors' Plant.)

Bagnall W. G., Ltd. . .	Castle Eng. Wks., Stafford
Birch John, & Co., Ltd. . .	2, London Wall Buildings, E.C.

Petrol Storage.

Braby Fred., & Co., Ltd. . .	Fitzroy Wks., 352-364, Euston Rd., N.W. 1
Brown, Lenox & Co. (London), Ltd. . .	Poplar, B.

Petrol and its Substitutes.**Photography and Materials, &c., and Appliances for Photography Printing and Copying Processes.**

Malden J., & Co., Ltd. . .	8, Albert Sq., Manchester
Hall E. J., & Co., Ltd. . .	Chalfont Hse., Gt. Peter St., Westminster, S.W.
Herbert Alfred, Ltd. . .	Coventry
Photographia, Ltd. . .	62, Cheapside, E.C.

Picks, Shovels and Spades.

Hadfields Limited . . .	Hecla Works, Sheffield
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Pile Drivers.

Browning Co. . .	Cleveland, Ohio, U.S.A.
Gibbins R. C. & Co. . .	Berkley St., Birmingham
Lidgerwood Limited . .	Friar's House, New Broad Street, E.C.

Piles, Sheet-Steel Piling and Pile Shoes.

Ransomes Machinery Co. (1920), Ltd. . .	14 & 16, Grosvenor Gar- dens, Westminster, S.W.
Stewart J. & W. . .	12, Berkeley St., W. 1

Pins (Taper).

Mountford Fredk., Ltd. . .	Old Cross St., Birming- ham
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Pipe Founders.—(See also Tubes.)

Ashmore, Benson, Pease and Co., Ltd. . .	Stockton-on-Tees [field]
Clay Cross Co., Ltd. . .	Clay Cross, nr. Chester-
Ham, Baker & Co., Ltd. . .	Langley Green, Birming- ham
Hollingdrake H., & Son, Ltd. . .	Stockport
Pulsometer Engineering Co., Ltd. . .	Nine Elms Ironworks, Reading
Tubi-Togni, Ltd. . .	Brescia, Italy

Pipe Screwing and Cutting Machinery.

Heap Joshua, & Co., Ltd. . .	Ashton-under-Lyne
Maiden & Co., Ltd. . .	Hyde, Cheshire
Tatt Samuel, Ltd. . .	Wednesbury
Tangyes Limited . .	Birmingham

Pipes (Large and Lap Welded).

Tubi-Togni, Ltd. . .	Brescia, Italy
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Pipes (Wrought-Iron and Steel).—(See also Tubes—Iron and Steel.)

Ashmore, Benson, Pease and Co., Ltd. . .	Stockton-on-Tees
Bellamy John, Ltd. . .	Millwall, B.
Boving & Co., Ltd. . .	56, Kingsway, W.C. 2
Clayton, Son & Co., Ltd. . .	Hunslet, Leeds
Crane-Bennett, Ltd. . .	45-51, Leman St., E. 1
Horseley Bridge & Engineering Co., Ltd. . .	Tipton, Staffordshire
Houston J. W., & Co. . .	Partick Cross, Glasgow
Howden Overseas Trading Co., Ltd. . .	105, St. Vincent St., Glasgow
Howell & Co., Ltd. . .	Brook Steel Works, Shet- field
Mechans Limited . .	Scotstoun Ironworks, Glasgow
Millwall Engineering Co., Ltd. . .	21, Panton St., S.W. 1
Piggott Thos., & Co., Ltd. . .	Springhill, Birmingham
Scottish Tube Co., Ltd. . .	34, Robertson St., Glas- gow
Steel Construction Co., Ltd. . .	Craighall Ironworks, Glasgow
Steel Pipe Company, Ltd. . .	Kirkcaldy, N.B.

Pipes (Wrought-Iron and Steel).—Continued.

Stewarts & Lloyds, Ltd.	41, Oswald St., Glasgow; Broad St. Chambers, Birmingham
Sugden T., Ltd.	180, Fleet St., E.C.
Thompson John (Wolver- hampton), Ltd.	Wolverhampton
Tubi-Togni, Ltd.	Brescia, Italy

Pistons and Piston Rings.

British Piston Ring Co., Ltd.	Holbrook Lane, Coven- try
Edmeston A. & Sons	Patricroft, nr. Manch'ster
Lancaster & Tonge, Ltd.	Pendleton, Manchester
Lockwood & Carlisle, Ltd.	Eagle Foundry, Sheffield
McNeil C., Ltd.	Glasgow

Planing Machines.—(See Machine Tools.)**Plates (Dished and Flanged).**

Abbott & Co. (Newark), Ltd.	Newark-on-Trent
Hudson Thomas, Ltd.	Coatbridge, N.B.

Plates (Iron and Steel).

Beardmore Wm., & Co., Ltd.	Glasgow
Colville David, & Sons, Ltd.	Glasgow
Dunkerley C. C., & Co., Ltd.	Store St., Manchester
Dunlop & Ranken, Ltd.	9, Park Lane, Leeds
Glasgow Iron & Steel Co., Ltd.	Wishaw
Leeds Forge Co., Ltd.	Leeds
Morden S. H., & Co., Ltd.	18, Dartmouth St., S.W. 1
Steel Co. of Scotland, Ltd.	23, Royal Exchange Sq., Glasgow
Stewarts & Lloyds, Ltd.	41, Oswald St., Glasgow; & Broad St. Chambers, Birmingham
Wolverhampton Corru- gated Iron Co., Ltd.	Ellesmere Port, nr. Bir- kenhead

Plummer Blocks.—(See also Bearings.)

Platt Samuel, Ltd.	Wednesbury
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Taylor & Challen, Ltd.	Birmingham
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Man- chester

Pneumatic Tools.

Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W. 1
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170 Piccadilly, W. 1
Gilman Frank	Wilders Drive, Warwick Rd., Birmingham
Globe Pneumatic Engineer- ing Co., Ltd.	1, Victoria St., Westmin- ster, S.W.
Howard Pneumatic En- gineering Co., Ltd.	Eastbourne
Ingersoll-Rand Co., Ltd.	165, Queen Victoria St., E.C.
Stevens, Clement, Pneu- matic Engineering Co., Ltd.	29, Spenser St., S.W. 1

Poles, Posts and Standards.

Scottish Tube Co., Ltd.	34, Robertson St., Glas- gow
Stewarts & Lloyds, Ltd.	41, Oswald St., Glasgow; Broad St. Chambers, Birmingham

Portable Engines.—(See Engines—Light and Portable.)**Portable Railways.—(See Railways—Light & Portable.)****Pottery and Encaustic Tile Machinery.—(See Brick & Tile-Making Machinery.)****Pressed Steel and Metal Work.**

Birmingham Railway Car- riage & Wagon Co., Ltd.	Smethwick, Birmingham
Danks H. & T. (Netherton), Ltd.	Netherton, Dudley
Horseley Bridge & En- gineering Co., Ltd.	Tipton, Staffordshire
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Jenkins R., & Co., Ltd.	Rotherham, England
Leeds Forge Co., Ltd.	Leeds
McNeil, Charles, Ltd.	Glasgow
Thompson Bros. (Bilston), Ltd.	Bradley Engineering and Boiler Works, Bilston
Thompson John (Wolver- hampton), Ltd.	Wolverhampton

Presses (Hydraulic).—(See Hydraulic Presses.)**Presses (Hand and Power).**

Air Manufacturing Co.	Sunbridge Rd., Bradford
Brett's Patent Lifter Co., Ltd.	Coventry
Fawcett, Preston & Co., Ltd.	Liverpool
Hands John, & Sons, Ltd.	Birmingham
Hollings & Guest, Ltd.	Birmingham
Hordern & Mason	St. Mary's, Birmingham.
Kynoch, Ltd.	Witton, Birmingham
Platt Samuel, Ltd.	Wednesbury
Pleck Foundry Co., Ltd.	Walsall
Stewart Duncan, & Co., Ltd.	London Rd. Ironworks, Birmingham
Taylor & Challen, Ltd.	Glasgow

Propellers.—(See Screw Propellers.)**Propellers (Air).—(See also Fans & Blowers, and Ventilators.)**

Alldays & Onions, Ltd.	Birmingham
Donkin Co., Ltd. (The Bryan)	Chesterfield
Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., B.C.

Publishers.

Arnold Edward	41 & 43, Maddox St., W.
Chapman & Hall, Ltd.	11, Henrietta St., W.C.
Compendium Publishing Co.	93/94, Chancery Lane, W.C. 2
Constable A., & Co., Ltd.	10, Orange St., W.C.
"Engineering," Ltd.	35 & 36, Bedford St., W.C.
Griffin Charles, & Co., Ltd.	Exeter St., Strand, W.C.
Howell W. R., & Co.	42, Theobalds Rd., W.C. 1
Library Press, Ltd.	1, Portugal St., Buildings, Portugal St., W.C. 2
Lockwood, Crosby & Son	7, Stationers' Hall Ct., E.C.

Publishers—Continued.

Longmans, Green & Co.	39, Paternoster Row, E.C.
Machinery Publishing Co., Ltd.	51, Chancery Lane, W.C.2
MacMillan & Co., Ltd.	St. Martin's St., W.C. 2
McGraw-Hill Publishing Co., Ltd.	6 & 8, Bouverie St., E.C.
Pitman Sir Isaac, & Sons, Ltd.	Parker St., Kingsway, W.C.2
Scott, Greenwood & Son.	8, Broadway, Ludgate Hill, E.C. 4
Spon B. & F. N., Ltd.	57, Haymarket, S.W.

Pulley Blocks.

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Bullivant & Co., Ltd.	72, Mark Lane, E.C.
Dempster Robert, & Sons, Ltd.	Elland, Yorks
Gibbins R. C., & Co.	Berkley St., Birmingham
Higginbottom & Mannock, Ltd.	West Gorton, Manchester
Holt & Willetts	Cradley Heath
Morris Herbert, Ltd.	Loughborough, England
Northern Engineering Works	Detroit, Mich., U.S.A.
Paterson Hughes Eng. Co., Ltd.	Charlotte Lane, Glasgow
Tangyes Limited	Birmingham
Vaughan Crane Co.	Openshaw, Manchester
Yale & Towne Manufacturing Co.	15, Mallow St., Old St., E.C.1
Youngs	Ryland St. Works, Birmingham

Pulleys (Cast Iron).

Bodley Brothers & Co.	Exeter
Crofts (Engineers), Ltd.	Empire Works, Bradford
Fraser, Douglas, & Sons, Ltd.	Arbroath
Jardine, J.	Deering St., Nottingham
Platt Samuel, Ltd.	Wednesbury
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Taylor & Challen, Ltd.	Birmingham
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Walford T. J.	Charles Henry St., Birmingham
Wigglesworth F., & Co., Ltd.	Shipley, near Bradford

Pulleys (Wood).**Pulleys (Wrought Iron and Steel).**

Barry Henry, & Cook, Ltd.	Aberdeen
Crofts (Engineers), Ltd.	Empire Works, Bradford
Douglas, Lawson & Co.	Birstall, near Leeds
Fraser, Douglas, & Sons, Ltd.	Arbroath
Hudswell, Clarke & Co., Ltd.	Railway Foundry, Leeds
Jardine, J.	Deering St., Nottingham
Platt Samuel, Ltd.	Wednesbury
Skefko Ball Bearing Co., Ltd.	Skefko Works, Luton, Beds.
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Stothert & Pitt, Ltd.	Bath
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Wigglesworth F., & Co., Ltd.	Clutch Works, Shipley, near Bradford

Pulverizers.—(See also Disintegrators.)

Allen Edgar, & Co., Ltd.	Sheffield
Bradley Pulverizer Co.	37, Walbrook, E.C.
Fuller-Lehigh Co.	Fullerton, Pa., U.S.A.
Jeffrey Manufacturing Co.	Columbus, Ohio, U.S.A.
Patent Lightning Crusher Co., Ltd.	144, Rosebery Av., Gray's Inn Rd., W.C.
Wood Hugh, & Co., Ltd.	65, Fenchurch St., E.C.3

Pumps (Air).—(See Air Pumps.)**Pumps (Centrifugal).**

Allen W.H., Sons, & Co., Ltd.	Bedford
Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Boving & Co., Ltd.	56, Kingsway, W.C. 2
British Electric Plant Co., Ltd.	66, Carrick St., Glasgow
Brooke Tool Mfg. Co., Ltd.	Belgrave Rd., Birmingham
Campbell & Calderwood.	So. Works, Paisley, Scotland
Drysdale & Co., Ltd.	Bon Accord Wks., Yoker, Glasgow, W.
Entwistle & Gass, Ltd.	Bolton
Escher, Wyss & Co.	20, Grosvenor Gardens, S.W.1
Gunther W., & Sons	Central Works, Oldham
Guthrie & Co.	St. James's Chambers, Accrington
Gwynnes Engineering Co., Ltd.	Hammersmith Ironwks. W.
Ingersoll-Rand Co., Ltd.	165, Queen Victoria St., E.C.
Lobnitz & Co., Ltd.	Renfrew
Paul Matthew, & Co., Ltd.	Levenford Works, Dumbarton
Pullen F. A., & Co.	Harleyford Rd., Vauxhall, S.E.11
Pulsmeter Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Rees Roturbo Manufacturing Co., Ltd.	Wolverhampton, Eng.
Ruston & Hornsby, Ltd.	Sheaf Ironwks., Lincoln
Simons W., & Co., Ltd.	Renfrew, N.B.
Tangyes Limited	Birmingham
Worthington-Simpson, Ltd.	Queen's House, Kingsway, W.C. 2

Pumps (Colonial).

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Caird & Rayner	777, Commercial Rd., Limehouse, E.
Evans Joseph, & Sons (Wolverhampton), Ltd.	Wolverhampton
Pulsmeter Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Weir G. & J., Ltd.	Cathcart, Glasgow
Worthington-Simpson, Ltd.	Queen's House, Kingsway, W.C.

Pumps (Donkey).

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Caird & Rayner	777, Commercial Rd., E. Salford
Cameron John, Ltd.	Salford
Carruthers J. H., & Co., Ltd.	Polmadie Ironwks., Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Evans Joseph, & Sons (Wolverhampton), Ltd.	Wolverhampton
Friedenthals, Ltd.	Preston
Hall J. P., & Sons	Peterborough

Pumps (Donkey)—Continued.

Mumford A. G., Ltd.	Colchester
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Robey & Co., Ltd.	Lincoln
Shore Thos., & Sons, Ltd.	Etruria, Stoke-on-Trent
Tangyes Limited	Birmingham
Worthington-Simpson, Ltd.	Queen's House, Kingsway, W.C.

Pumps and Pumping Machinery.

Aldrich Pump Co.	Allentown, Pa., U.S.A.
Allen W. H. Son, & Co., Ltd.	Bedford
Bailev Sir W. H., & Co., Ltd.	Salford, Manchester
Barclay Andrew, Sons & Co., Ltd.	Caledonia Wks., Kilmarnock, Scotland
Berry Henry, & Co. Ltd.	Croydon Works, Leeds
Bever, Doring & Co., Ltd.	Bradford
Brooke Tool Manufacturing Co. Ltd.	Belgrave Road, Birmingham
Brotherhood Peter, Ltd.	Peterborough
Caird & Rayner	777, Commercial Rd., E.
Cameron John, Ltd.	Oldfield Rd. Ironworks, [Salford]
Campbell Gas Engine Co., Ltd.	Hallifax, England
Carruthers J. H., & Co., Ltd.	Polmadie Ironwks., Glasgow
Chaplin Alex., & Co.	Govan, Glasgow
Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Davey, Paxman & Co., Ltd.	Colchester
Davy Brothers, Ltd.	Sheffield
Dawson & Downie, Ltd.	Elgin Works, Clydebank
De Laval Steam Turbine Co.	150, Southampton Row, W.C.
Downton J., & Co., Ltd.	Hamilton, Scotland
Drum Engineering Co., Ltd.	28, Humboldt St., Bradford
Drysdale & Co., Ltd.	Bon Accord Wks., Yoker, [Glasgow, W.]
East Ferry Road Engineering Works Co., Ltd.	Millwall, B.
Ellison W. T., & Co., Ltd.	Irlams - o' - th' - Height, Manchester
Escher, Wyss & Co.	20, Grosvenor Gardens, S.W.1
Evans Joseph, & Sons (Wolverhampton), Ltd.	Wolverhampton
Fawcett, Preston & Co., Ltd.	Liverpool
Fleming & Ferguson, Ltd.	Paisley, N.B.
Friedenthals, Ltd.	River Engine Wks, Preston
Fullerton, Hodgart & Barclay, Ltd.	Vulcan Foundry and Engine Works, Paisley
Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Gwynnes Engineering Co., Ltd.	Hammersmith Ironwks., W.
Hall J. P., & Sons, Ltd.	Peterborough
Hannworthy Engineering Co., Ltd.	76, Victoria St., S.W.
Hardy & Padmore, Ltd.	Worcester
Hayward, Tyler & Co., Ltd.	99, Queen Victoria St., B.C.
Heath Robert, & Low Moor, Ltd.	Bradford, Yorkshire
Hollings & Guest, Ltd.	Thimble Mill Lane, Birmingham
Howden Overseas Trading Co., Ltd.	105, St. Vincent St., Glasgow
Hughes & Lancaster	16, Victoria St., S.W.
Hydraulic Gears Ltd.	Hammersmith, W. 6
Ingersoll-Rand Co., Ltd.	165, Queen Victoria St., E.C.
Kirkaldy John, Ltd.	101, Leadenhall St., B.C.3

Pumps and Pumping Machinery—Continued.

Kitson Empire Lighting Co., Ltd.	1, Central Buildings Westminster, S.W.1
Lancaster & Tonge, Ltd.	Pendleton, nr. M'chester
Leeds Engineering & Hydraulic Co., Ltd.	Rodley, near Leeds
Lees T. & R.	Hollinwood, nr. Manchester
Lunken Co., Ltd.	35, Great Dover St., S.E.
Manlove, Allott & Co., Ltd.	Nottingham
Mason Regulator Co.	Boston, Mass., U.S.A.
Merryweather & Sons, Ltd.	63, Long Acre, W.C.
Moorlands Engineering Co., Ltd.	Leek, Staffs.
Mumford A. G., Ltd.	Colchester
Musgrave Bros.	Leeds
Nichols Pump & Engineering Co., Ltd.	Northallerton, Yorks.
Parsons C. A., & Co., Ltd.	Newcastle-on-Tyne
Paul Matthew, & Co., Ltd.	Levenford Wks., Dumbarton
Pearn Frank, & Co., Ltd.	Manchester
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Pleck Foundry Co., Ltd.	Walsall
Pratchitt Bros.	Denton Ironwks., Carlisle
Pullen F. A., & Co.	Harleyford Rd., Vauxhall, S.E.11
Pulsometer Eng. Co., Ltd.	Nine Elms Ironworks, Reading
Ransomes & Rapier, Ltd.	Ipswich
Ransomes, Sims & Jefferies, Ltd.	Ipswich
Rees Roturbo Manufacturing Company, Ltd.	Wolverhampton, Eng.
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Robey & Co., Ltd.	Lincoln
Ruston & Hornsby, Ltd.	Grantham
Sandycroft Limited	Chester
Shore Thos., & Sons, Ltd.	Etruria, Stoke-on-Trent
Stothert & Pitt, Ltd.	Birmingham
Tangyes Limited	Smith Square, Westminster, S.W.1
Thornycroft J. I., & Co., Ltd.	Bishopbriggs, Glasgow
Turnbull Alex., & Co., Ltd.	Cornbrook, Manchester
United Brassfounders & Engineers, Ltd.	Newport, Mon.
Uskside Iron Works	14-16, Cockspur St., S.W.1
Warner Robert, & Co. (Engineers), Ltd.	Cathcart, Glasgow
Weir G. & J., Ltd.	York Rd., King's Cross, N.
Westinghouse Brake & Saxby Signal Co., Ltd.	32 to 38, Southwark St., S.E.
Willcox W. H., & Co., Ltd.	Queen's House, Kingsway, W.C. 2
Worthington - Simpson, Ltd.	Salisbury House, London Wall, E.C.2
Zwicky Pump Co., Ltd.	

Pumps (Turbine).

Adamson Daniel, & Co., Ltd.	Dukinfield, Manchester
Allen W.H. Sons, & Co., Ltd.	Bedford
Boulton & Paul, Ltd.	Norwich, England
Boving & Co., Ltd.	56, Kingsway, W.C. 2
British Electric Plant Co., Ltd.	66, Carrick St., Glasgow
Drysdale & Co., Ltd.	Bon-Accord Wks., Yoker, Glasgow, W.

Pumps (Turbine)—Continued.

Metropolitan-Vickers Elec- trical Co., Ltd.	Trafford Park, Man- chester
Pullen F. A., & Co.	Harleyford Rd., Vaux- hall, S.E.11
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Rees Roturbo Manufac- turing Company, Ltd.	Wolverhampton, Eng.
Salterns, Ltd.	Parkstone, Dorset

Pumps (Vacuum).

Broom & Wade, Ltd.	High Wycombe
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, Picca- dilly, W. 1
Evans Joseph, & Sons (Wol- verhampton), Ltd.	Wolverhampton
Ingersoll Rand Co., Ltd.	165, Queen Victoria St., E.C.
Mirrlees Watson Co., Ltd.	Scotland St., Glasgow
Reavell & Co., Ltd.	Ipswich
Siebe, Gorman & Co., Ltd.	Neptune Works, S.E.
Westinghouse Brake & Saxby Signal Co., Ltd.	82, York Rd., N.1
Zwicky Pump Co., Ltd.	Salisbury House, London Wall, E.C.2

Punching and Shearing Machines.

Bennie James, & Sons	Govan, Glasgow
Berry F., & Sons	Calderdale Ironworks, Sowerby Bridge
Berry Henry, & Co., Ltd.	Croydon Works, Leeds
Cameron John, Ltd.	Oldfield Rd. Ironworks, Salford
Craig & Donald, Ltd.	Johnstone, nr. Glasgow
Davy Brothers, Ltd.	Sheffield
Farrar Boiler Works, Ltd.	Lincoln
Hands John, & Sons, Ltd.	Cardigan Wks., Birming- ham
Hordern & Mason	St. Mary's, Birmingham
Leeds Engineering & Hydraulic Co., Ltd.	Rodley, near Leeds
Macrez A. R.	34, Rue de Londres, Paris (9e)
Musgrave Bros.	Leeds
Pleck Foundry Co., Ltd.	Walsall
Pollock, Macnab & High- gate	Shettleston, Glasgow
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Ryerson Joseph T., & Son	Chicago, Ill., U.S.A.
Smith Hugh, & Co., Ltd.	Possil Works, Glasgow
Tangyes Limited	Birmingham
Walber W. A., & Co.	38 Victoria St., S.W.

Pyrometers and Thermometers.

Alexander George H., Mach- inery, Ltd.	Colleshill St., Birming- ham
Budenberg Gauge Co., Ltd.	Broadheath, nr. Manches- ter
Coats Machine Tool Co., Ltd.	14, Palmer St., S.W. 1
Engineering Supplies, Ltd.	11, Queen Victoria St., E.C.4
Foster Instrument Co.	Letchworth, Herts
Horne Engineering Co.	35, Pitt St., Glasgow

Pyrometers and Thermometers—Continued.

Incandescent Heat Co., Ltd.	British Mills, Smethwick, Birmingham
Negretti & Zambra	38, Holborn Viaduct, E.C.
Shore Instrument & Mfg. Co.	New York
Siemens Bros., & Co., Ltd.	Woolwich, S.E. 18
Sugden T., Ltd.	180, Fleet St., E.C.
Uehling Instrument Co.	473, Getty Avenue, Paterson, New Jersey, U.S.A.

Rail Benders.

Berry Henry, & Co., Ltd.	Hunslet, Leeds
Gibbins R. C., & Co.	Berkley St., Birmingham
Holt & Willeits	Cradley Heath
Tangyes Limited	Birmingham
Youngs	Birmingham

Rail Lifters.

Gibbins R. C., & Co.	Berkley St., Birmingham
Youngs	Ryland St. Works, Bir- mingham

Rails (Steel and Iron).—(See also Permanent Way, and Switches & Crossings.)

Cammell Laird & Co., Ltd.	Sheffield
Colville David, & Sons, Ltd.	Glasgow
Dunlop & Ranken, Ltd.	9, Park Lane, Leeds
Partington Steel & Iron Co., Ltd.	Irlam, Manchester
Steel Co. of Scotland, Ltd.	23, Royal Exchange Square, Glasgow
White Rd., & Sons	Widnes, Lancs

Railway and Contractors' Plant.

Alley & MacLellan, Ltd.	Sentinel Works, Glasgow
Bagnall W. G., Ltd.	Castle Engine Works, Manchester (Stafford)
Beyer, Peacock & Co., Ltd.	2, London Wall Bldg., E.C.
Birch John, & Co., Ltd.	Sheffield
Brown John & Co., Ltd.	Cleveland, Ohio, U.S.A.
Browning Co.	13, Victoria St., S.W.
Bucyrus Co.	Norfolk Works, Sheffield
Firth Thos., & Sons, Ltd.	Leeds
Fowler J., & Co. (Leeds), Ltd.	Berkley St., Birmingham
Gibbins R. C., & Co.	Hecla Works, Sheffield
Hadfields Limited	Worcester
Heenan & Proude, Ltd.	Motherwell, N.B.
Hurst, Nelson & Co., Ltd.	
Kilmarnock Engineering Co., Ltd.	10, Coleman St., E.C.2
Kloos F., & Sons	20, Cophall Avenue, E.C.2
Leeds Forge Co., Ltd.	Leeds
Lidgerwood Ltd.	Friar's House, New Broad St., E.C.
MacLellan P. & W., Ltd.	120, Trongate, Glasgow
Ransomes & Rapier, Ltd.	Ipswich
Stone J. B., & Co., Ltd.	135, Finsbury Pavement, [E.C.]
Summerson Thomas, & Sons, Ltd.	Darlington
Vickers, Ltd.	Sheffield
Western Wheeled Scraper Co.	Aurora, Illinois, U.S.A.
Wonham, Bates & Goode,	3, London Wall Build- ings, E.C.

Railway Rolling Stock.—(See Carriage, Wagon and Engine—Locomotive.)

Railway Signals.

Westinghouse Brake & } 82, York Rd., King's
 Saxby Signal Co., Ltd. } Cross, N.1
 Siemens Bros., & Co., Ltd. Woolwich, S.E. 18

Railway Wheels.—(See *Wheels*—*Railway*.)**Railways (Light and Portable).**

Armstrong Sir W. G., } 8, Great George St.,
 Whitworth & Co., Ltd. } S.W. 1
 Bagnall W. G., Ltd. } Stafford [E.C.
 Birch John, & Co., Ltd. } 2, London Wall Buildings,
 Braithwaite & Co. } 117, Victoria St., S.W. 1
 Fowler J., & Co. (Leeds), Ltd. Leeds
 Hurst, Nelson & Co., Ltd. Motherwell, N.B.
 Motor Rail & Tram Car Co. Bedford

Railways (Rack).

Cammell Laird & Co., Ltd. Sheffield

Rawhide Wheels.—(See *Wheels*—*Rawhide*.)**Reducing Valves.**—(See *Valves*—*Reducing*.)**Refractory Materials.**

Bradley & Foster, Ltd. 105, Colmore Row, Birmingham

Refrigerating Machinery.—(See also *Ice-Making Machines*.)

Brotherhood, Peter, Ltd. Peterborough
 Hall J. & B., Ltd. Dartford Ironworks, Kent
 Haslam Foundry & Engineering Co., Ltd. Union Foundry, Derby
 Liverpool Refrigeration Co., Ltd. Colonial House, Liverpool
 Pontifex & Wood, Ltd. Union Foundry, Derby
 Pulsometer Engineering Co., Ltd. Nine Elms Ironworks, Reading
 Seagers Ltd. Dartford
 Sterne L., & Co., Ltd. Crown Ironworks, Glasgow
 West H. J., & Co., Ltd. 72-74, Gray's Inn Rd., W.C. 1

Reversing Gears (Motor Boat).

Thornycroft J. I., & Co., } Smith Square, Westminster, S.W. 1

Rice-Dressing Machinery.

Douglas & Grant .. Kirkcaldy, N.B.

Riveting Machines.

Arrol Sir William, & Co., Ltd. Dalmarnock Ironworks, Bridgeton, Glasgow
 Berry Henry, & Co., Ltd. Croydon Works, Leeds
 Consolidated Pneumatic Tool Co., Ltd. Egyptian House, 170, Piccadilly, W. 1
 Drysdale & Co., Ltd. Bon Accord Wks., Yoker, Glasgow, W.
 Globe Pneumatic Engineering Co., Ltd. 1, Victoria St., Westminster, S.W.
 Hollings & Guest, Ltd. Thimble Mill Lane, Birmingham

Leeds Engineering & Hydraulic Co., Ltd. Rodley, nr. Leeds
 Musgrave Bros. Leeds
 Rice & Co. (Leeds), Ltd. Elland Rd., Leeds
 Shuster, F. B., Co. Newhaven, Conn., U.S.A.
 Smith Hugh, & Co., Ltd. Possil Works, Glasgow

Rivet Heaters.

A.1 Manufacturing Co. Sunbridge Rd., Bradford
 American Car & Foundry Co. 165, Broadway, N.Y., U.S.A.
 Leeds Electrical Construction Co., Ltd. Charnmouth St., Leeds

Rivets.—(See *Bolts, Rivets, &c.*)**Road Rollers (Steam, &c.).**

Agricultural & General Engineers, Ltd. Central House, Kingsway, W.C. 2
 Fowler J., & Co. (Leeds), Ltd. Leeds
 Marshall, Sons & Co., Ltd. Gainsborough
 Ruston & Hornsby, Ltd. Sheaf Ironworks, Lincoln

Rockbreaker (Mechanical, under Water).

Lobnitz & Co., Ltd. Renfrew, Scotland

Rock Drills.—(See also *Boring Tools & Machinery, and Well Engineers*.)

Consolidated Pneumatic Tool Co., Ltd. Egyptian House, 170, Piccadilly, W. 1
 Ingersoll-Rand Co., Ltd. 165, Queen Victoria St., E.C.

Roller Bearings.—(See *Bearings*—*Ball & Roller*.)**Rolling Mill Machinery.**—(See *Iron and Steel Works, Plant for*.)**Rolling Mills (for Metals).**—(See *Iron and Steel Works, Plant for*.)**Rolls (Chilled and Grain).**

Bayliss, Jones & Bayliss, Ltd. Wolverhampton

Roofing Material.

Anderson D., & Son, Ltd. Lagan Works, Belfast
 British Everite & Asbestite Works, Ltd. 29, Peter St., Manchester
 British Fibrocement Works Erith, Kent

Roofs (Iron, Steel and Zinc).—(See *Structural Engineering*.)**Rope Tramways.**

British Ropeway Engineering Co., Ltd. 7, Mincing Lane, E.C. 3
 Bullivant & Co., Ltd. 72, Mark Lane, E.C.
 Henderson John M., & Co. Aberdeen, Scotland
 Lidgetwood Ltd. Friars House, New Broad St., E.C.
 White Rd., & Sons Widnes, Lancs.

Ropes (Driving).

Hart Thomas, Ltd. Blackburn, England
 Kenyon Wm., & Sons, Ltd. Dukinfield, Manchester

Ropes (Wire).—(See *Wire & Wire Rope Makers*.)**Rubber Machinery**

Entwistle & Gass, Ltd. Bolton
 Vickers Limited Vickers House, Broadway, S.W. 1

Railways.

Dempster Robert, & Sons, Ltd.	Elland, Yorks
Higginbottom & Mannock, Ltd.	Crown Ironworks, West Gorton, Manchester
Holt & Willetts	Lion Wks., Cradley Heath
Morris Herbert, Ltd.	Loughborough, England
Paterson Hughes Eng. Co., Ltd.	Charlotte Lane, Glasgow
Ritchie-Atlas Engineering Co.	Atlas Works, Temple, Glasgow
Vaughan Crane Co., Ltd.	Openshaw, Manchester

Rust Preventive.

Graphite Products, Ltd.	218-220, Queen's Rd., Battersea, S.W.8
Hill W. W., Son & Wallace, Ltd.	Broughton, Manchester
Ironite, Co., Ltd.	11, Old Queen St., Westminster, S.W.1
Rust Preventer Co.	Chorlton - on - Medlock, Manchester
Sozol Limited	20, Copthall Avenue, E.C.2

Sales.**Sand Blast Machines.****Sand (Moulding).****Sanitary Appliances.**

Glenfield & Kennedy, Ltd.	Kilmarnock, N.B.
Hughes & Lancaster	47, Victoria St., S.W.

Saw Makers.

Allen Edgar, & Co., Ltd.	Sheffield
Anderson-Grice Co., Ltd.	Carnoustie, Scotland
Apex Steel Co., Ltd.	Sheffield
Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Great George St., S.W.1
Atkins, E. C., & Co., Inc.	Indianapolis, Indiana, U.S.A.

Baynes Charles, Ltd.	Knuzden Brook, Blackburn
Buck & Hickman, Ltd.	2 & 4, Whitechapel Rd., E.1

Chambers, Scott & Co., Ltd.	Motherwell
Davy Brothers, Ltd.	Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Hampton & Beebe, Ltd.	Wednesbury, South Staffs.

Pickles John, & Son (Engineers), Ltd.	Hebden Bridge, Yorks
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Saw Mill Machinery.—(See Wood-Working Machinery.)**Scientific Instruments.—(See Boiler Mountings, Drawing Instruments, and Pyrometers & Thermometers.)****Scrap Metal.**

Barnard H. B., & Sons	Glyn St., Vauxhall, S.E.11
Bradley & Foster, Ltd.	105, Colmore Row, Birmingham
Buyers of Scrap Metal, Ltd.	Glyn St., S.E. 11
Dunkerley C. C. & Co., Ltd.	Store St., Manchester
Harris F. W. (Birmingham), Ltd.	132, Hurst St., Birmingham
Smith E. J., & Co.	King's Rd., Birmingham

Screens.

Dempster Robert, & Sons, Ltd.	Elland, Yorks
Johnson Wm., & Sons (Leeds), Ltd.	Armley, Leeds

Screw Propellers and Propeller Blades.

Billington & Newton, Ltd.	Longport, Stoke-on-Trent
Brown John, & Co., Ltd.	Sheffield
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Friedenthal, Ltd.	River Eng. Wks., Preston
Hadfields Limited	Hecla Works, Sheffield
North-Eastern Marine Engineering Co., Ltd.	Northumberland Works, Wallsend-on-Tyne
Ross & Duncan	Glasgow
Steven & Struthers	Keilvinhaugh, Glasgow
Thornycroft J. I., & Co., Ltd.	Southampton
Vickers Limited	Sheffield

Screwing Machines.

Armstrong Mfg. Co.	338, Knowlton St., Bridgeport, Conn., U.S.A.
Armstrong Sir W. G., Whitworth & Co., Ltd.	Openshaw, Manchester
Chatwin Thos., Ltd.	Gt. Tindal St., Birmingham
Daniell S. A., Ltd.	Edward St., Parade, Birmingham
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Lunts, Ltd.	Halford St., Leicester
Maiden & Co., Ltd.	Hyde, Cheshire
Niles-Bement Pond Co.	Hamilton, Ohio, U.S.A.
Platt Samuel, Ltd.	Wednesbury
Shanks Thomas, & Co.	Johnstone
Tangyes Limited	Birmingham
Wharton H., Ltd.	Station Rd., Reddish, Stockport
Winn Charles, & Co.	Granville Place, Birmingham

Screws, &c.**Search Lights.**

Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
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Second-hand Tools, &c.

Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Jennings Edward J.	Westwalls, Newcastle-on-Tyne
McNab John	Mary St., Hyde
Phoenix Electrical Co., Ltd.	32-36, Broomielaw, Glasgow
Riddle John H., Ltd.	40, St. Enoch Square, Glasgow
Ward Thos., W., Ltd.	Albion Works, Sheffield

Separators, Magnets, &c.

Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly W.
De Laval Steam Turbine Co.	150, Southampton Row, W.C.
Igranic Electric Co., Ltd.	147, Qn. Victoria St., E.C.
Rapid Magnetising Machine Co., Ltd.	52, Lombard St., Birmingham
Westminster Tool & Electric Co.	116, Putney Bridge Rd., S.W. 13

Shafting and Shaft Fittings.—(See also *Clutches—Friction, Couplings—Shaft, and Plummer Blocks & Bearings.*)

Armstrong Sir W. G.,	8, Great George St.,
Whitworth & Co., Ltd.	S.W. 1
Barry, Henry & Cook, Ltd.	Aberdeen
Beardmore W., & Co., Ltd.	Glasgow
Bessemer Henry, & Co., Ltd.	Sheffield
Bodley Bros. & Co.	Old Quay Foundry, Exeter
Brown John, & Co., Ltd.	Sheffield
Columbia Steel & Engineering Co., Ltd.	Bank Chambers, 329, High Holborn, W.C. 1
Craven Brothers (Manchester), Ltd.	Vauxhall Wks., Reddish, Stockport
Crofts (Engineers), Ltd.	Empire Works, Bradford
Crowther Henry, & Sons, Ltd.	Cleckheaton, Yorkshire
Douglas, Lawson & Co.	Birstall, near Leeds
Electro-Mechanical Brake Co., Ltd.	West Bromwich
Entwistle & Gass, Ltd.	Bolton
Bacher, Wyss & Co.	20, Grosvenor Gardens, S.W. 1
Fife Forge Co., Ltd.	Kirkcaldy, Scotland
Finney George, & Co.	Berkley St., Birmingham
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Govan Shafting & Engineering Co., Ltd.	Govan, Glasgow
Hadfield's Limited	Hecla Works, Sheffield
Hampton & Beebe, Ltd.	Wednesbury, South Staffs.
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hudswell, Clarke & Co., Ltd.	Leeds
Jardine John	Deering St., Nottingham
Kirkstall Forge, Ltd.	Leeds
Kynoch, Ltd.	Witton, Birmingham
Newton, Bean & Mitchell	Dudley Hill, Bradford
Platt Samuel, Ltd.	Wednesbury
Power Plant Co., Ltd.	West Drayton, Middlesex
Smith & Grace Screw Boss Pulley Co., Ltd.	Thrapston
Taylor & Challen, Ltd.	Birmingham
Trier Bros., Ltd.	36, Victoria St., Westminster, S.W. 1
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Vickers Limited	Sheffield
Wigglesworth F., & Co., Ltd.	Shipley, near Bradford

Shearing Machines.—(See *Punching & Shearing Machines.*)**Sheerlegs.**

Day, Summers & Co., Ltd.	Southampton
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Sheet Metal Work, and Machinery.

Boulton & Paul, Ltd.	Norwich
Braime T. F., & Co., Ltd.	Hunslet, Leeds
Dallow, Lambert & Co., Ltd.	King St., Leicester
Kynoch, Ltd.	Witton, Birmingham
Standard Piston Ring and Engineering Co.	Premier Wks., Don Rd., Sheffield
Taylor & Challen, Ltd.	Birmingham

Sheet-Metal Work (Welded).

Ash Joseph, & Son	Rea St. South, Birmingham
Thompson Bros. (Bilston), Ltd.	Bradley Engineering and Boiler Works, Bilston
Wolverhampton Corrugated Iron Co., Ltd.	Ellesmere Port, nr. Birkenhead

Shipbuilders.—(See also *Barges & Lighters, Dredgers—Suction, Motor Boats, and Torpedo Boats.*)

Ailsa Shipbuilding Co., Ltd.	Troon, N.B.
Armstrong, Sir W. G.,	8, Great George St., S.W. 1
Beardmore W., & Co., Ltd.	Glasgow
Brown John, & Co., Ltd.	Sheffield
Burmeister & Wain, Ltd.	Copenhagen, Denmark
Cammell Laird & Co., Ltd.	Sheffield
Campbell & Calderwood	Soho Works, Paisley, Scotland
Chalmers Wm., & Co., Ltd.	Rutherglen, Scotland
Day, Summers & Co., Ltd.	Southampton
Dublin Dockyard Co., Ltd.	North Wall, Dublin
Ferguson Brothers (Port Glasgow), Ltd.	Newark Works, Port Glasgow
Fleming & Ferguson, Ltd.	Paisley, N.B.
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Lobnitz & Co., Ltd.	Renfrew, Scotland
McClintock-Marshall Products Co.	50, Church St., New York, U.S.A.
McKie & Baxter	Govan, Glasgow
Normand Augustin	67, Rue du Perrey, Le Havre, France
Ross & Duncan	Glasgow
Simons W., & Co., Ltd.	Renfrew, N.B.
Sun Shipbuilding Co.	1428 So. Penn Sq., Philadelphia, Pa., U.S.A.
Thornycroft J. I., & Co., Ltd.	Smith Square, Westminster, S.W. 1
Todd Shipyards Corporation	25, Broadway, New York, U.S.A.
Vickers Limited	Barrow-in-Furness
Walsend Slipway & Engineering Co., Ltd.	Walsend
White J. Samuel, & Co., Ltd.	East Cowes, Isle of Wight
Yarrow & Co., Ltd.	Glasgow

Shipping and Transport Agents.

McGregor, Gow & Holland, Ltd.	1 & 4, Fenchurch Ave., E.C. 3
Union Transit Co.	381, Argyle St., Glasgow

Shovels and Spades.—(See *Picks, &c.*)**Sirens and Whistles.**

France & Morgan	Whitefield Brass Works, Govan, Glasgow
Lunken Company, Ltd.	35, Great Dover St., E.C.
Smith Bros. & Co. (Hyson), Ltd.	Nottingham

Sites (Industrial).

Great Western Railway Co.	Paddington Station, W.2
North Eastern Railway Co.	The Commercial Agent, York

Sleepers (Railway).—(See *Permanent Way.*)**Slotting and Shaping Machines.**—(See *Machine Tools.*)

Stukes.

Blakeborough J., & Sons, Ltd. .. Brighouse, Yorks
 Glenfield & Kennedy, Ltd. Kilmarnock, N.B.
 Ransomes & Rapier, Ltd. Ipswich

Smiths' Fires.

Alldays & Onions, Ltd. .. Birmingham

Smoke Helmets, &c.

Siebe, Gorman & Co., Ltd. Neptune Wks., Westminster Bridge Rd., S.E.

Solders and Fluxes.

County Chemical Co., Ltd. Birmingham
 McKechnie Brothers .. Rotton Park St., Birmingham

Solenoids (Brake).

Elliston, Evans, & Jackson, Ltd. .. } 13, Cross St., Finsbury, E.C. 2

Sparking Plugs.—(See Igniters—Electric.)**Speed Indicators and Counters.**

Bailey Sir W. H., & Co., Albion Wks., Salford, Ltd. Manchester
 Dobbie McInnes & Clyde, Ltd. .. } 57, Bothwell St., Glasgow

Speed Reducing Gears.—(See Gearing—Speed Reducing.)**Spikes & Nails.**

Russell John G. .. Wishaw, Scotland

Springs.

Brown John, & Co., Ltd. Sheffield
 Cockburs Limited .. Clydesdale Wks., Card'n'd, near Glasgow
 Salter, Geo., & Co., Ltd. West Bromwich
 Smith Bros. & Hill, Ltd. Albert Spring Works, West Bromwich
 Sterne L., & Co., Ltd. Crown Ironwks., Glasgow
 Turton Thos., & Sons, Ltd. Sheaf Works, Sheffield
 Vermot, Ch., Valère, Mabilie and R. Pelgrims, Ltd. .. } 83, Victoria St., S.W. 1
 Woonham, Bates, & Goode, Inc. .. } 3, London Wall Buildings, E.C.

Springs and Coils (Machinery for Making).

Sleeper & Hartley (Inc.) .. Worcester, Mass., U.S.A.

Stamping Machinery.

Berry Henry, & Co., Ltd. Hunslet, Leeds
 Hands John, & Sons, Ltd. Birmingham
 Kynoch, Ltd. .. Witton, Birmingham
 Macrez, A. R. .. 34, Rue de Londres, Paris (9e)
 Massey B. & S., Ltd. Manchester
 Platt Samuel, Ltd. Wednesbury
 Taylor & Challen, Ltd. Birmingham

Stampings (Aluminium).**Stampings (Brass, Bronze, Copper, &c.).**

Brookes & Adams .. 250-252, Barr St., Hockley, Birmingham
 Delta Metal Co., Ltd. .. East Greenwich, S.B.
 McKechnie Bros., Ltd. .. Rotton Park St., Birmingham
 Scottish Stamping & Engineering Co., Ltd. .. Ayr, Scotland
 Smith E. J., & Co. .. Hay Mills, Birmingham

Stampings (Iron and Steel).

Armstrong Sir W. G., Whitworth & Co., Ltd. } 8, Great George St., S.W. 1
 Armstrong, Stevens & Son, Ltd. Whittall St., Birmingham
 Barr, Thomson & Co., Ltd. Kilmarnock, Scotland
 Braine T. F., & Co., Ltd. Hunslet, Leeds
 Brett's Stamping Co., Ltd. Harnall Lane, Coventry
 Clayton Wagons, Ltd. Lincoln
 Fowler John, & Co. (Leeds), Ltd. Leeds
 Gartsherie Engineering & Forge Co. .. 50, Wellington Street, Glasgow
 Head, Wrightson & Co., Ltd. Teesdale Ironwks., Thornaby-on-Tees, Middlesbrough
 Heavy Stampings, Ltd. Tipton, Staffordshire
 Horseley Bridge & Engineering Co., Ltd. Brightside Works, Sheffield
 Jessop Wm., & Sons, Ltd. Glasgow
 McNeil Charles, Ltd. Wellington, Shropshire
 Sankey Joseph, & Sons, Ltd. Ayr, Scotland
 Scottish Stamping & Engineering Co., Ltd. Jenkintown, Pa., U.S.A.
 Standard Pressed Steel Co. Bradley Eng., & Boiler Works, Bilston
 Thompson Bros. (Bilston), Ltd. Sheffield
 Vickers, Ltd. .. Sheffield

Steam Cultivating Machines.

Aveling & Porter, Ltd. Rochester
 Fowler John, & Co. (Leeds), Ltd. Leeds
 Marshall, Sons & Co., Ltd. Gainsborough

Steam Hammers.—(See also Hammers—Power.)

Brett's Patent Lifter Co., Ltd. Coventry
 Cochrane, John (Barrhead), Ltd. Barrhead, nr. Glasgow
 Davis & Primrose, Ltd. Leith, Edinburgh
 Davy Brothers, Ltd. Sheffield [gow
 Dempster, Moore & Co., Ltd. 49, Robertson St., Glasgow
 Massey B. & S., Ltd. Openshaw, Manchester
 Pollock, Macnab & Highgate Shettleston, Glasgow
 Thwaites Brothers, Ltd. Central House, Kingway, W.C. 2

Steam Pipes.—(See Pipes—Wrought Iron and Steel, and Tubes—Brass, Iron, &c.)**Steam Rollers.—(See Road Rollers.)****Steam Separators.**

Alley & Macellan, Ltd. Sentinel Works, Glasgow
 Hopkinson J., & Co., Ltd. Huddersfield
 North-Eastern Marine Engineering Co., Ltd. Northumberland Works, Wallsend-on-Tyne
 Princes & Co. .. Sheffield
 Worthington-Simpson, Ltd. Queen's House, Kingway, W.C.

Steam Traps.

Alley & Maclellan, Ltd.	..	Sentinel Works, Glasgow
British Steam Specialties, Ltd.	..	Bedford St., Leicester
Glyne Engineering Co., Ltd.	..	94, Market St., Manchester
Cockburns Limited	..	Cardonald, near Glasgow
Edmeston A. & Sons	..	Patricroft, nr. Manchester
Hobdell, Way & Co., Ltd.	..	124-3, Minories, B.
Hopkinson J., & Co., Ltd.	..	Huddersfield
Lancaster & Tonge, Ltd.	..	Pendleton, Manchester
Premier Cooler & Engineering Co., Ltd.	..	Station Works, Shalford, nr. Guildford, Surrey
Royles Limited	..	Irlam, near Manchester
Steam Fittings Co., Ltd.	..	West Drayton, Middlesex
Steven & Struthers	..	Kelvinhaugh, Glasgow
Turnbull Alex., & Co., Ltd.	..	Bishopbriggs, Glasgow
United Brassfounders & Engineers, Ltd.	..	Cornbrook, Manchester

Steam Turbines and Fittings.

Adamson, Daniel, & Co., Ltd.	..	Dukinfield
Allen W. H. Sons, & Co., Ltd.	..	Bedford
Armstrong, Sir W. G., Whitworth & Co., Ltd.	..	8, Great George Street, S.W. 1
Belliss & Morcom, Ltd.	..	Birmingham
British Thomson-Houston Co., Ltd.	..	Rugby
Brotherhood, Peter, Ltd.	..	Peterborough
Brush Electrical Engineering Co., Ltd.	..	Loughborough, Leicestershire
Cockburns Limited	..	Cardonald, nr. Glasgow
De Laval Steam Turbine Co.	..	150, Southampton Row, W.C.
English Electric Co., Ltd.	..	Queen's House, Kingsway, W.C. 2
Becher, Wyss & Co.	..	20, Grosvenor Gardens, S.W. 1
Frazer & Chalmers Engineering Works	..	Erith, Kent
Howden James, & Co.	..	Scotland St., Glasgow
McNeil Charles, Ltd.	..	Glasgow
Metropolitan-Vickers Electrical Co., Ltd.	..	Trafford Park, Manchester
Parsons C. A., & Co.	..	Newcastle-on-Tyne
Richardsons, Westgarth & Co., Ltd.	..	Hartlepool
Terry Steam Turbine Co.	..	Hartford, Conn., U.S.A.
Thornycroft, J. I., & Co., Ltd.	..	Southampton
Vickers Limited	..	Sheffield
Wallsend Slipway & Engineering Co., Ltd.	..	Wallsend
White J. Samuel, & Co., Ltd.	..	East Cowes, Isle of Wight

Steel Bars.—(See Bars—Bright Steel.)**Steel and Iron Makers.**

Allen Edgar, & Co., Ltd.	..	Sheffield
Beardmore Wm., & Co., Ltd.	..	Glasgow
Bessemer Henry, & Co., Ltd.	..	Sheffield
Bradley & Foster, Ltd.	..	105, Colmore Row, Birmingham
Briton Ferry Steel Co., Ltd.	..	Briton Ferry, South Wales
Brown John, & Co., Ltd.	..	Sheffield
Cammell Laird & Co., Ltd.	..	Sheffield
Colville David, & Sons, Ltd.	..	Glasgow
Dunlop & Ranken, Ltd.	..	9, Park Lane, Leeds
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield

Steel and Iron Makers—Continued.

Ghion, J.	..	Finsbury
	..	Pavement House, E.C.2
Glasgow Iron & Steel Co., Ltd.	..	Wishaw, N.B.
Hadfields Limited	..	Hecla Works, Sheffield
Howell & Co., Ltd.	..	BrookSteelWks, Sheffield
Jessop, Wm., & Sons, Ltd.	..	Brightside Works, Sheffield
Lee Arthur, & Sons, Ltd.	..	Sheffield
Leeds Forge Co., Ltd.	..	Leeds
Marsden H. R., Ltd.	..	Soho Foundry, Leeds
Osborn Samuel, & Co., Ltd.	..	Clyde Steel Wks., Sheffield
Partington Steel & Iron Co., Ltd.	..	Irlam, Manchester
Ramshay & Marshall, Ltd.	..	Birmingham
Steel Co. of Scotland, Ltd.	..	23, Royal Exchange Sq., Glasgow
Stewarts & Lloyds, Ltd.	..	41, Oswald St., Glasgow, & Nile St., Birmingham
Turton T., & Sons, Ltd.	..	Sheaf Works, Sheffield
Vickers Limited	..	Sheffield

Steel and Iron Works (Plant for).—(See Iron and Steel Works.)**Steel and Iron Merchants.**

Dunlop & Ranken, Ltd.	..	9, Park Lane, Leeds
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Steel (Tool Special, and High-Speed).

Allen Edgar, & Co., Ltd.	..	Sheffield
Apex Steel Company, Ltd.	..	Penistone Rd., Sheffield
Armstrong Sir W. G., Whitworth & Co., Ltd.	..	8, Great George St., S.W. 1
Brown John, & Co., Ltd.	..	Sheffield
Cammell Laird & Co., Ltd.	..	Sheffield
Firth Thos., & Sons, Ltd.	..	Norfolk Works, Sheffield
Holding John, & Co., Ltd.	..	Sheffield
Howell & Co., Ltd.	..	Brook Steel Works, Sheffield
Jessop, Wm., & Sons, Ltd.	..	Brightside Works, Sheffield
Jonas & Colver, Ltd.	..	Sheffield
Partington Steel & Iron Co., Ltd.	..	Irlam, Manchester
Vickers Limited	..	Sheffield

Steering Gear.

Alley & Maclellan, Ltd.	..	Sentinel Works, Glasgow
Carron Company	..	Carron, Stirlingshire
Laurence, Scott & Co., Ltd.	..	Norwich
Napier Bros., Ltd.	..	130, Hyde Park St., Glasgow, W.
Turnbull Alex., & Co., Ltd.	..	Bishopbriggs, Glasgow

Stokers (Mechanical).

Bennis Ed., & Co., Ltd.	..	Bolton
Meldrums Ltd.	..	Timperley, nr. Manchester
Proctor J., Ltd.	..	Burnley, Lancashire
Triumph Stoker, Ltd.	..	Kirkstall Rd., Leeds
Underfeed Stoker Co., Ltd.	..	South Place E.C.

Stonebreakers.—(See also *Disintegrators*.)

Allen Edgar, & Co., Ltd.	Sheffield
Goodwin, Barsby & Co. . .	Leicester
Hadfields Limited . . .	Hecla Works, Sheffield
Marsden H. R., Ltd. . .	Soho Foundry, Leeds
Robey & Co., Ltd. . .	Lincoln
Western Wheeled Scraper Co.	Aurora, Illinois, U.S.A.

Structural Engineering.

Anderson D., & Son, Ltd.	Lagan Works, Belfast
Armstrongs & Main, Ltd.	Australia House, Strand, W.C.
Arrol Sir William, & Co., Ltd.	Dalmarnock Ironworks, Bridgeton, Glasgow
Ash Joseph, & Son . . .	Rea St. South, Birmingham
Ashmore, Benson, Pease & Co., Ltd.	Stockton-on-Tees
Bellamy John, Ltd. . .	Millwall, S.E.
Booth John, & Sons . .	Bolton
Boulton & Paul, Ltd. .	Norwich
Butler Samuel, & Co., Ltd.	Stanningley, nr. Leeds
Bradley & Foster, Ltd. .	105, Colmore Row, Birmingham
Braithwaite & Co. (Engineers), Ltd. . . .	117, Victoria St., S.W.1
Brandon Bridge-Building Co., Ltd.	Brandon Wks, Motherwell
Butterley Co., Ltd. . .	Derby
Clayton Son, & Co., Ltd. .	Hunslet, Leeds
Cleveland Bridge & Engineering Co., Ltd. .	Darlington
Clyde Structural Iron Co., Ltd.	Clydeside Ironworks, Scotstoun, Glasgow
Dunlop & Ranken, Ltd. .	9, Park Lane, Leeds
Farrar Boiler Works, Ltd.	Lincoln
Findlay Alex., & Co., Ltd.	Motherwell, nr. Glasgow
Fletcher Geo., & Co., Ltd.	Derby
Gibbons Bros., Ltd. . .	Dudley, Worc.
Head, Wrightson & Co., Ltd.	Thornaby-on-Tees
Heenan & Froude, Ltd. .	Manchester
Horseley Bridge & Engineering Co., Ltd. . .	Tipton, Staffordshire
Incandescent Heat Co., Ltd.	Smethwick, Birmingham
Keay E. C. & J., Ltd. . .	Corporation St., Birmingham
Kloos F., & Sons	20, Copthall Ave., E.C.2
Lilleshall Co., Ltd. . .	Oakengates, Shropshire
Lysaght John, Ltd. . . .	St. Vincent Ironworks, Bristol
McClintic-Marshall Products Co.	50, Church St., New York, U.S.A.
MacLellan P. & W., Ltd. .	129, Trongate, Glasgow
Maxwell & Fage	49, Sefton St., Liverpool
Mechans Limited	Glasgow
Motherwell Bridge Co., Ltd.	Motherwell, N.B.
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Redpath, Brown & Co., Ltd.	2, St. Andrew Square, Edinburgh
Russell S., & Sons . . .	Leicester
Sanders & Forster, Ltd. .	Thames Works, Barking
Sands Geo., & Son, Ltd. .	Colwick, Nottingham
Smith & Pearson, Ltd. . .	Newcomen Ironworks, Dublin
Smulders A. F.	Schiedam, Holland
Steel Construction Co., Ltd.	Craighall Ironworks, Glasgow
Stewarts & Lloyds, Ltd. .	41, Oswald St., Glasgow

Sugar Machinery.

Craig A. F., & Co., Ltd. . .	Paisley
Davis & Primrose, Ltd. . .	Leith, Edinburgh
Fawcett, Preston & Co., Ltd.	Liverpool
Harvey Engineering Co., Ltd.	Glasgow
Manlove, Alliott & Co., Ltd.	Nottingham
Mirrles Watson Co., Ltd.	Scotland St., Glasgow
Piggott Thos., & Co., Ltd.	Springhill, Birmingham
Poti, Cassels & Williamson	Motherwell, nr. Glasgow
Robey & Co., Ltd.	Lincoln
Ruston & Hornsby, Ltd. . .	Sheaf Ironworks, Lincoln
Stewart Duncan, & Co., Ltd.	Glasgow
Watson, Laidlaw & Co., Ltd.	98, Dundas St. (South), Glasgow

Superheaters.

Adamson Daniel, & Co., Ltd.	Dukinfield
Danks H. T. (Netherton), Ltd.	Netherton, Dudley
Davey, Paxman & Co., Ltd.	Colchester
Galloways, Ltd.	Manchester
Garrett R., & Sons, Ltd. . .	Leiston Works, Suffolk
Heenan & Froude, Ltd. . .	Worcester
Mechans Limited	Scotstoun Ironworks, [Glasgow]
Millwall Engineering Co., Ltd.	21, Panton St., S.W. 1
Sugden T., Ltd.	180, Fleet St., E.C.
Superheater Corporation, Ltd.	14, New Burlington St., W.
Superheater Units, Ltd. . .	4, Castle Sq., Swansea
Thompson John (Wolverhampton), Ltd.	Wolverhampton
Tinker, Shenton & Co., Ltd.	Hyde, nr. Manchester

Surveyors.—(See *Auctioneers, &c.*)**Switchboards & Accessories.**—(See also *Electric Lighting & Power Plant, and Instruments—Electrical Surveying, &c.*)

British Thomson-Houston Co., Ltd.	Rugby
Electric Construction Co., Ltd.	9, New Broad St., E.C. 2
Electric Control, Ltd. . .	Bridgeton, Glasgow
Electrical Apparatus Co., Ltd.	South Lambeth Rd., S.W. 8
English Electric Co., Ltd.	Queen's House, Kingsway, W.C. 2
Ferguson, Pailin, Ltd. . .	Higher Openshaw, Manchester
General Electric Co., Ltd.	Magnet House, Kingsway, W.C. 2
Holmes J. H., & Co. . . .	Newcastle-upon-Tyne
Igranite Electric Co., Ltd.	147, Queen Victoria St., E.C.
Johnson & Phillips, Ltd. .	Charlton, S.E. 7
Laurence, Scott & Co., Ltd.	Norwich
Reyrolle A., & Co., Ltd. .	Hebburn-on-Tyne

Switches and Crossings.

Cammell Laird & Co., Ltd.	Sheffield
Heenan & Froude, Ltd. . .	Worcester
Summerson Thomas, & Sons, Ltd.	Darlington
Vickers Limited	Sheffield
Westinghouse Brake & Saxby Signal Co., Ltd. . . .	82, York Rd., King's Cross, N.1
White Rd., & Sons	Widnes, Lancs.

Tanks and Drums.

Ash Joseph, & Son .. Rea St. South, Birm'gh'm
 Bellamy John, Ltd. .. Millwall, E. [N.W. 1
 Braby Fredk., & Co., Ltd. .. 352 to 364, Euston Rd.,
 Brandon Bridge-Building .. Brandon Wks, Motherwell
 Co., Ltd. ..
 Brown Lenox & Co. .. Poplar, E.
 (London), Ltd. .. Shipley, Yorks
 Butterfield W. P., Ltd. .. Clay Cross, nr. Chester
 Clay Cross Co., Ltd. .. Hunslet, Leeds [field
 Clayton Son, & Co., Ltd. .. Clydeside Ironworks
 Clyde Structural Iron Co., } Sootstoun, Glasgow
 Ltd. ..
 Danks H. & T. (Netherton), } Netherton, Dudley
 Ltd. ..
 Harvey G.A., & Co. (London), } Greenwich Metal Wks.,
 Ltd. .. Woolwich Rd., S.E.
 Head, Wrightson & Co., Ltd. } Thornaby-on-Tees
 Horseley Bridge & Engineer- }
 ing Co., Ltd. .. Tipton, Staffordshire
 Jenkins R., & Co., Ltd. .. Rotherham, Eng.
 Keay E. C. & J., Ltd. .. Corporation St., Bir-
 mingham
 Lysaght, John, Ltd. .. St. Vincent Ironworks,
 Bristol
 McClintic-Marshall Pro- } 50, Church St., New
 ducts Co. .. York, U.S.A.
 Mechans Limited .. Glasgow
 Motherwell Bridge Co., Ltd. } Motherwell, N.B.
 Newton, Chambers & Co., } Thorncliffe Ironworks,
 Ltd. .. near Sheffield
 Piggott Thos., & Co., Ltd. .. Springhill, Birmingham
 Ransomes & Rapier, Ltd. } Ipswich
 Steel Construction Co., Ltd. } Craighall Ironworks,
 Glasgow
 St. George's Engineers, Ltd. } Hulm Hall Rd., Man-
 chester
 Sudron Thos., & Co., Ltd. } Stockton-on-Tees
 Taylor George (Brass }
 Founders), Ltd. .. Bolton, nr. Manchester
 Thompson Bros. (Bilston), } Bradley Eng. & Boiler
 Ltd. .. Works, Bilston
 Valor Company, Ltd. .. Aston Cross, Birmingham

Tanners and Curriers.

Tullis John, & Son, Ltd. .. Glasgow
 Webb & Son (Combs), Ltd. Stowmarket

Taper Pins.—(See Pins—Taper.)**Tea-Dressing Machinery.**

Marshall Sons & Co., Ltd. .. Gainsborough
 Ransomes, Sims & Jefferies, }
 Ltd. .. Ipswich

Telegraph Cable-Laying Machines.—(See Cable-Laying Machinery.)**Telegraph Instruments.****Telegraph Wire & Cables.—(See also Electric Cables.)**

British Insulated & Helsby }
 Cables, Ltd. .. Prescott, Lancashire

Telegraphs (Engine and Steering).

Chadburn's (Ship) Tele- } Cyprus Rd., Bootle,
 graph Co., Ltd. .. } Lancs.
 Siemens Bros. & Co., Ltd. Woolwich, S.E. 18

Telephones.

British L. M. Ericsson } 60, Lincoln's Inn Fields,
 Mfg. Co., Ltd. .. } W.C. 2
 Caledonian Telephone (New } 62-64, Robertson St.,
 System) Co., Ltd. .. } Glasgow

Telfers and Runways.—(See Runways.)**Testing.—(See also Laboratories.)****Testing Machines and Instruments.**

Alexander George H., } Coleshill St., Birming-
 Machinery, Ltd. .. } ham
 Amsler Alfred J., & Co. .. Schaffhouse, Switzer-
 land
 Avery W. & T., Ltd. .. Soho Foundry, Birmingham
 Bailey Sir W. H., & Co., Ltd. Salford, Manchester
 Coats Machine Tool Co., } 14, Palmer St., West-
 Ltd. .. minster, S.W. 1
 Cooke T., & Sons, Ltd. .. Buckingham Works,
 York
 Denison Saml., & Sons, Ltd. } 28, Victoria St., S.W. 1
 Foster Instrument Co. .. Letchworth, Herts
 Shore Instrument & Manu- } Van Wyck Av. & Carll
 facturing Co. .. } St., New York, U.S.A.
 Tangyes Limited .. Birmingham

Textile Machinery.**Thermometers.—(See Pyrometers.)****Timber.**

Calders, Ltd. .. 10A, George St., Edin-
 burgh
 Cawood G. R., & Co. .. 4, South Parade, Leeds

Timber (Drying and Preserving).

Calders, Ltd. .. 10A, George St., Edin-
 burgh

Time-Checking Machines and Registers.

Bailey Sir W. H., & Co., Ltd. Salford, Manchester
 Llewellyn's Machine Co. .. Bristol, England

Tools (Hand and Small).—(See also Chucks, Files, and Machine Tools.)

Alldays & Onions, Ltd. .. Birmingham
 Apex Steel Co., Ltd. .. Penistone Rd., Sheffield
 Armstrong Mfg. Co. .. 338, Knowlton St., Bridge-
 [port, Conn., U.S.A.
 Armstrong Sir W. G., Whit- }
 worth & Co., Ltd. .. 8, Gt. George St., S.W. 1
 Armstrong, Stevens & Son, }
 Ltd. .. Whittall St., Birmingham
 Brooke Tool Mfg. Co., Ltd. } Greet, Birmingham
 Buck & Hickman, Ltd. .. 2 & 4, Whitechapel Rd.,
 E. 1
 Campbell & Isherwood, Ltd. } Bootle, nr. Liverpool
 Chandler, Lindsay & Co. } 11-13, Upper East Smith-
 field, E. 1
 Chatwin Thos., Ltd. .. Gt. Tindal St., Birm'gham

Tools (Hand and Small)—Continued.

Churchill Chas., & Co., Ltd.	9 to 15, Leonard St., E.C
Coats Machine Tool Co., Ltd.	14, Palmer St., S.W. 1
Consolidated Pneumatic Tool Co., Ltd.	Egyptian House, 170, Piccadilly, W. 1
Crockatt, W., & Sons, Ltd.	64, Darnley St., Glasgow
Cuffin, W. H.	North Evington, Leicester
Cushman Chuck Co.	Hartford, Conn, U.S.A.
Daniell S. A., Ltd.	Edward St., Parade, Birmingham
Dempster, Moore & Co., Ltd.	49, Robertson St., Glasgow
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Forbes Brothers	Doe St., Birmingham
Gilman Frank	Wilders Drive, Warwick Rd., Birmingham
Globe Pneumatic Engineering Co., Ltd.	1, Victoria St., S.W. 1
Hampton & Beebe, Ltd.	Wednesbury, South Staffs.
Heap Joshua, & Co., Ltd.	Ashton-under-Lyne
Holbrook & Sons	44, Martin St., Stratford, E. 15
Holding John, & Co., Ltd.	Sheffield
Hollindrake H., & Son, Ltd.	Stockport
Jacobs Mfg. Co.	Hartford, Conn., U.S.A.
Jones A. A., & Shipman, Ltd.	East Park Rd., Leicester
Lunts, Ltd.	Halford St., Leicester
Malden & Co., Ltd.	Hyde, Cheshire
Matterson, Ltd.	Shawclough, Rochdale
Precision Gauges, Ltd.	Wrentham St., Birmingham
Skinner Chuck Co.	139, Queen Victoria St., E.C. 4
Stone J. B., & Co., Ltd.	135, Finsbury Pavement, E.C.
Tangent Tool Engineering Co., Ltd.	Keynsham, Somerset
Taylor Charles (Birmingham), Ltd.	Bartholomew Sq., Birmingham
Trimont Mfg. Co.	55-71, Amory St., Roxbury, Mass., U.S.A.
Tuck & Blackmore, Ltd.	Coventry
Vickers F. E.	Robertson St., Glasgow
Vickers Limited	Vickers House, Broadway, Westminster, S.W.
Ward H. W., & Co., Ltd.	Selly Oak, Birmingham
Wells A. C., & Co.	102, Midland Rd., N.W.
Wharton, H.	Reddish, Stockport
White, Jacoby & Co., Ltd.	Bayham Place, Camden Town, N.W. 1
Williams J. H., & Co.	91, Richard St., Brooklyn, New York, U.S.A.

Tools (Pneumatic).—(See Pneumatic Tools.)**Torpedo Boats and Destroyers.**

Normand Augustin	67, Rue du Perrey, Le Havre, France
Thornycroft J. I., & Co., Ltd.	Smith Square, Westminster, S.W. 1
White J. Samuel, & Co., Ltd.	East Cowes, Isle of Wight
Yarrow & Co., Ltd.	Glasgow

Torsion Meters.

Chadburn's (Ship) Telegraph Co., Ltd.	Cyprus Rd., Bootle, Lancs.
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Tractors (Oil, Steam, &c.).

Agricultural & General Engineers, Ltd.	Central House, Kingsway, W.C. 2
Clayton Wagons, Ltd.	Lincoln
Marshall, Sons & Co., Ltd.	Gainsborough
Robey & Co., Ltd.	Lincoln

Tramways and Tramway Plant.

Allen Edgar, & Co., Ltd.	Sheffield [E.C.
Birch John, & Co., Ltd.	2, London Wall Buildings,
Brecknell, Munro & Rogers, Ltd.	Thrissell St., Bristol
Brown John, & Co., Ltd.	Sheffield
Hadfields Limited	Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Ruston & Hornsby, Ltd.	Grantham

Transformers.

English Electric Co., Ltd.	Queen's House, Kingsway, W.C. 1
Ferranti, Limited	Hollinwood, Lancashire
General Electric Co., Ltd.	Magnet House, Kingsway, W.C. 2
Metropolitan-Vickers Electrical Co., Ltd.	Trafford Park, Manchester

Transporters.

Arrol Sir Wm., & Co., Ltd.	Bridgeton, Glasgow
Brown Hoisting Machinery Co.	Cleveland, Ohio, U.S.A.
Cowans, Sheldon & Co., Ltd.	Carlisle
Dempster Robert, & Sons, Ltd.	Elland, Yorks
Fraser & Chalmers Engineering Works	Erith, Kent
Henderson, John M., & Co.	Aberdeen, Scotland
Higginbottom & Mannock, Ltd.	West Gorton, Manchester
Kloos F., & Sons	20, Copthall Ave., E.C. 2
Mitchell Conveyor & Transporter Co., Ltd.	45-50, Holborn Viaduct, E.C. 1
Ruston & Hornsby, Ltd.	Sheaf Ironworks, Lincoln
Wellman Smith Owen Eng. Corp., Ltd.	King's House, Kingsway, W.C. 2
Whitaker D.	1, Union St., Leicester

Tubes (Brass and Copper).—(See also Pipes.)

Birmingham Battery and Metal Co., Ltd.	Birmingham
Bolton Thomas, & Sons, Ltd.	57, Bishopsgate, E.C. 2
Broughton Copper Co., Ltd.	Manchester
Delta Metal Co., Ltd.	Dartmouth St., Birmingham
Everitt Allen, & Sons, Ltd.	Smethwick, Birmingham
Grice, Grice & Son, Ltd.	Nile St., Birmingham
Millwall Engineering Co., Ltd.	21, Pantion St., S.W. 1
Muntz P. H., & Co., Ltd.	West Bromwich
Royles, Ltd.	Irlam, near Manchester
Yorkshire Copper Wks., Ltd.	Leeds

Tubes (Iron and Steel).

Chesterfield Tube Co., Ltd. Chesterfield
 Clayton, Son & Co., Ltd. .. Hunslet, Leeds
 Foster Brothers, Ltd. .. Wednesbury
 Howell & Co., Ltd. .. Sheffield [E.C.
 Le Bas Edward, & Co. .. Dock House, Billiter St.,
 Mechans Limited .. Glasgow
 Muntz P. H., & Co., Ltd. .. West Bromwich
 Piggott Thos., & Co., Ltd. Springhill, Birmingham
 Russell John, & Co., Ltd. Alma Tube Wks., Walsall
 Scottish Tube Co., Ltd. .. 34, Robertson St., Glas-
 gow

Spencer John, Ltd. .. Wednesbury
 Staffordshire Tube Co., Ltd. Edmund St., Birmingham
 Steel Pipe Co., Ltd. .. Kirkcaldy, N.B.
 Stewarts & Lloyds, Ltd. 41, Oswald St., Glasgow,
 & Broad St. Chambers,
 Birmingham

Tubes, Ltd. .. Birmingham
 Tubi-Togni, Ltd. .. Brescia, Italy
 Victors, Ltd. .. Sheffield
 Victoria Tube Co., Ltd. .. Great Bridge, Stafford-
 shire

Weldless Steel Tube Co., Ltd. Wednesfield, nr. Wolver-
 hampton
 Wonham, Bates & Goode, } 3, London Wall Build-
 Inc. } ings, E.C.

Tube-Making Machinery.

Platt Samuel, Ltd. .. Wednesbury

Tube Walls.—(See Wall Engineers.)**Tubes (Non-Ferrous).****Tag Boats.**

Chalmers Wm., & Co., Ltd. Rutherglen, Scotland
 Day, Summers & Co., Ltd. Southampton
 Ferguson Bros. (Port Glas- } Newark Works, Port
 gow), Ltd. .. Glasgow
 Fleming & Ferguson, Ltd. Paisley, N.B.
 Lobnitz & Co., Ltd. .. Renfrew, Scotland
 McKie & Baxter .. Copland Works, Govan,
 Glasgow
 Ross & Duncan .. Glasgow
 Thornycroft J. I., & Co., } Southampton; & Smith
 Ltd. .. Sq., Westminster, S.W.1
 White J. Samuel, & Co., Ltd. East Cowes, Isle of Wight

Turbine Pumps.—(See Pumps—Turbines.)**Turbines (Water).—(See also Steam Turbines.)**

Allen W.H., Sons & Co., Ltd. Bedford
 Böving & Co., Ltd. .. 56, Kingsway, W.C. 2
 Escher, Wyss & Co. .. 20, Grosvenor Gardens,
 S.W. 1
 Gilbert Gilkes & Co., Ltd. Kendal, England
 Günther W., & Sons .. Central Works, Oldham
 International General Elec- } Schenectady, New York,
 tric Co., Inc. } U.S.A.
 Kvaerner Brug, A/s .. Kristiania, Norway
 Salterns Limited .. Parkstone, Dorset
 Vickers Limited .. Sheffield

Turnstiles.

Elison W. T., & Co., Ltd. Manchester

Turntables.

Ashmore, Benson, Pease Stockton-on-Tees
 & Co., Ltd. .. Carlisle
 Cowans, Sheldon & Co. Ltd. Newton Heath Ironwks.,
 Heenan & Proude, Ltd. .. nr. Manchester
 Ransomes & Rapier, Ltd. Ipswich
 Summerson Thomas, & Sons, Ltd. .. Darlington

Typewriters.**Tyres (Railway).**

Beardmore W., & Co., Ltd. Glasgow
 Bessemer Henry, & Co., Ltd. Sheffield
 Brown John, & Co., Ltd. Sheffield
 Cammell Laird & Co., Ltd. Sheffield
 Firth Thos., & Sons, Ltd. Norfolk Works, Sheffield
 Vickers Limited .. Sheffield

Tyres (Rubber).

Dunlop Rubber Co., Ltd. Para Mills, Aston Cross,
 Birmingham
 North British Rubber Co., Ltd. .. 257-259, Oxford St., W.

Vacuum Dust Plant.

British Vacuum Cleaner } Dept. 5/20, Parson's
 Co., Ltd. .. } Green Lane, S.W.

Valuers.—(See Auctioneers, &c.)**Valve Gear.****Valve Reseating Machines.**

Jones A. A., & Shipman, East Park Rd., Leicester
 Ltd. ..

Valves (Gas, Steam, Water, &c.).

Alley & Macdellan, Ltd. .. Sentinel Works, Glasgow
 Auld David, & Sons, Ltd. .. Whitevale F'dry, Glasgow
 Bailey Sir W. H., & Co., Ltd. Salford, Manchester
 Bell's United Asbestos Co., Ltd. .. 594, Southwark St., S.E.
 Berry Henry, & Co., Ltd. Croydon Works, Leeds
 Blakeborough J., & Sons, Ltd. .. Brighouse, Yorks.
 Boving & Co., Ltd. .. 56, Kingsway, W.C. 2
 British Steam Specialties, Ltd. Bedford St., Leicester
 Cockburn A., & Co. .. Gateside St., Glasgow
 Cockburns Limited .. Cardonald, nr. Glasgow
 Crane-Bennett, Ltd. .. 45 to 51, Leman St., E. 1
 Crockatt W., & Sons, Ltd. 64, Darnley St., Glasgow
 Crosby Valve & Engineer- }
 ing Co., Ltd. .. 41 & 42, Foley St., W. 1
 Davies & Metcalfe, Ltd. .. Romiley, nr. Manchester
 Donkin Co. Ltd. (The Bryan) Chesterfield
 East Ferry Road Engineer- }
 ing Works Co., Ltd. .. Millwall, E.
 Glenfield & Kennedy, Ltd. Kilmarnock, N.B.
 Guest & Chrimmes .. Rotherham
 Ham, Baker & Co., Ltd. Langley Green, Birming-
 ham
 Huddersfield
 Hopkinson J., & Co., Ltd. 6, Great Queen St., W.C.
 Jenkins Bros., Ltd. ..

Valves (Gas, Steam, Water, &c.)—Continued.

Lunken Company, Ltd.	35, Great Dover St., S.B.
Markt & Co. (London), Ltd.	98 & 100, Clerkenwell Rd., E.C. 1
Metallic Mfg. Co.	Ardrossan
Metallic Valve Co.	Colonial Hse., Water St., Liverpool
Piggott Thos., & Co., Ltd.	Birmingham
Rice & Co. (Leeds), Ltd.	Elland Rd., Leeds
Royles, Ltd.	Irlam, nr. Manchester
Russell John, & Co., Ltd.	Manchester
Smith Bros. & Co. (Hyson), Ltd.	Nottingham
Tubi-Togni, Ltd.	Brescia, Italy
Turnbull Alex., & Co., Ltd.	Bishopbriggs, Glasgow
United Brassfounders & Engineers, Ltd.	Cornbrook, Manchester
Willcox W. H., & Co., Ltd.	32-38, Southwark St., S.E. 1
Woodite Company	Mitcham Common, Surrey
Worthington-Simpson, Ltd.	Queen's House, Kingsway, W.C. 2

Valves (Reducing).

Auld David, & Sons, Ltd.	Whitevale F'dry, Glasgow
Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
British Steam Specialities, Ltd.	Bedford St., Leicester
Cockburns Limited	Clydesdale Eng. Works, Cardonald, Glasgow
Guest & Chimes	Rotherham
Hopkinson J., & Co., Ltd.	Huddersfield
Mason Regulator Co.	Boston, Mass., U.S.A.
Royles Limited	Irlam, near Manchester
Steam Fittings Co., Ltd.	West Drayton, Middlesex
Sugden T., Ltd.	180, Fleet St., E.C.
Turnbull Alex., & Co., Ltd.	Bishopbriggs, Glasgow

Valves (Safety).

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Cockburn A., & Co.	Gateside St., Glasgow
Cockburns Limited	Cardonald, near Glasgow
Crosby Valve & Engineering Co., Ltd.	41 & 42, Foley St., W. 1
Hobdell, Way & Co., Ltd.	St. John's House, 124-5, Minories, E.
Hopkinson J., & Co., Ltd.	Huddersfield
Lunken Company, Ltd.	35, Great Dover St., E.C.
Manning, Maxwell & Moore, Inc.	New York
Royles Limited	Irlam, nr. Manchester
Russell, John, & Co., Ltd.	Manchester
Turnbull Alex., & Co., Ltd.	Bishopbriggs, Glasgow

Ventilators.—(See also Fans and Blowers.)

Aldays & Onions, Ltd.	Birmingham
Allen W. H., Sons & Co., Ltd.	Bedford
Dallow, Lambert & Co., Ltd.	King St., Leicester
Heenan & Froude, Ltd.	Worcester
Keith James, & Blackman Co., Ltd.	27, Farringdon Avenue, E.C.
Murray, McVinnie & Co., Ltd.	Mavisbank Quay, Glasgow
Musgrave & Co., Ltd.	St. Anne's Ironworks, Belfast
Royce Ltd.	Trafford Park, Manchester
Simon-Carves, Ltd.	Manchester
Standard & Oswald Stott (Engineers), Ltd.	Leicester

Ventilators—Continued.

Sturtevant Engineering Co., Ltd.	147, Queen Victoria St., E.C.
Sutcliffe Ventilating & Drying Co., Ltd.	Manchester
Thermotank Co.	55, West Regent St., Glasgow

Vices.

Aldays & Onions, Ltd.	58, Holborn Viaduct, E.C.
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Forbes Brothers	Doe St., Birmingham
Taylor Charles (Birmingham), Ltd.	Birmingham

Vulcanite and Vulcanised Rubber Goods.—(See also India Fibre.—(See also India

Reddaway F., & Co., Ltd.	Pendleton, Manchester
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Wagon (Railway) Builders.

American Car and Foundry Co.	165, Broadway, New York, U.S.A.
Bagnall W. G., Ltd.	Castle Engine Wks., Staffs. Lincoln
Clayton Wagons, Ltd.	Govan, Glasgow
Glasgow Railway Engineering Co., Ltd.	Thornaby-on-Tees
Head, Wrightson & Co., Ltd.	Worcester
Heenan & Froude, Ltd.	Motherwell, N.B.
Hurst, Nelson & Co., Ltd.	10, Coleman St., E.C. 2
Kilmarnock Engineering Co., Ltd.	Leeds
Leeds Forge Co., Ltd.	129, Tringate, Glasgow
MacLellan P. & W., Ltd.	Midland Wks, Birmingham
Midland Railway Carriage and Wagon Co., Ltd.	Wishaw, near Glasgow
Pickering R. Y., & Co., Ltd.	

Wagons (Self-Propelled).—(See Motor Vehicles.)**Wagons (Tip).**

Bagnall W. G., Ltd.	Castle Engine Works, Stafford
Bellamy John, Ltd.	Millwall, E.
Hadfields Limited	Hecla Works, Sheffield
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Western Wheeled Scraper Co.	Aurora, Illinois, U.S.A.

Waste (Cotton).**Water Cooling Plant.**

Brotherhood Peter, Ltd.	Peterborough
Clyne Engineering Co., Ltd.	94, Market St., Manchester
Davenport Engineering Co.	Harris St., Bradford
Premier Cooler & Engineering Co., Ltd.	Station Works, Shalford, nr. Guildford, Surrey

Waterproofing Compounds.

Ironite Co., Ltd.	11, Old Queen St., Westminster, S.W. 1
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Water-Purifying Apparatus.—(See Feed-Water Filters.)

Bellamy John, Ltd.	Millwall, E.
Blakeborough J., & Sons, Ltd.	Brighouse, Yorks
Buhning's Patent Water Purifying Co.	146A, Queen Victoria St., E.C.
Harris Patent Feed-Water Filter (1910), Ltd.	24, Grainger St. West, Newcastle-on-Tyne
Paterson Engineering Co., Ltd.	21, Windsor House, Kingsway, W.C. 2
Pulsometer Engineering Co., Ltd.	Nine Elms Ironworks, Reading
Royles Limited	Irlam, near Manchester
United Water Softeners, Ltd.	Imperial House, Kingsway, W.C. 2
Wright's Forge & Engineering Co., Ltd.	Tipton, Staffordshire

Water Wheels.—(See also Turbines—Water.)

Barry, Henry & Cook, Ltd.	Aberdeen
Bodley Bros., & Co.	Exeter [burgh
Davis & Primrose, Ltd.	Bangor Rd., Leith, Edin.

Watches and Clocks.

Bailey Sir W. H., & Co., Ltd.	Salford, Manchester
Llewellyn's Machine Co.	Bristol, England
Smith S., & Sons, Ltd.	6, Grand Hotel Buildings, Trafalgar Sq., W.

Weighing Machines.

Avery W. & T., Ltd.	Soho Foundry, Birmingham
Denison Saml., & Son, Ltd.	28, Victoria St., S.W. 1
Salter Geo., & Co., Ltd.	West Bromwich

Welding and Cutting Plant.

A 1 Manufacturing Co.	Sunbridge Rd., Bradford
Acetylene Equipment Co., Ltd.	268 & 270, South Lambeth Road, S.W. 8
Allen-Liversidge, Ltd.	106, Victoria St., S.W.
Alloy Welding Processes, Ltd.	14-16, Cockspur St., S.W. 1
Boulton & Paul, Ltd.	Norwich
British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
Dargus Acetylene Gas Co., Ltd.	Grey St., Newcastle-on-Tyne
Hartley & Sugden, Ltd.	Atlas Works, Halifax, Yorks
McGowan, Wild & Co.	Hurst St., Birmingham
Oxy-Acetylene Welding Co., Ltd.	169, Finsley St., Glasgow

Well Engineers.—(See also Boring & Sinking Tools & Machinery for Shafts & Wells.)

Isler C., & Co., Ltd.	Bear Lane, Southwark St., S.E. 1
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Wheel-Cutting Machinery.—(See Gear Cutters.)**Wheels (Geared).**

Angus George, & Co., Ltd.	Newcastle-on-Tyne
Barry Henry, & Cook, Ltd.	Aberdeen
Bessemer Henry, & Co., Ltd.	Sheffield
Bodley Bros. & Co.	Exeter

Wheels (Geared)—Continued.

British Insulated & Helsby Cables, Ltd.	Prescot, Lancashire
British Thomson-Houston Co., Ltd.	Rugby
Brown David, & Sons (Huddersfield), Ltd.	Park Works, Huddersfield
Campbells & Hunter, Ltd.	Dolphin Foundry, Leeds
Campbell & Isherwood, Ltd.	Boothle, nr. Liverpool
Citroën Gear Co., Ltd.	22, Buckingham Gate, S.W. 1
Crofts (Engineers), Ltd.	Bradford, Yorks
Entwistle & Gass, Ltd.	Atlas Foundry, Bolton
Hadfields Limited	Hecla Works, Sheffield
Hawthorn R. & W., Leslie & Co., Ltd.	Newcastle-on-Tyne
Jackson P. R., & Co., Ltd.	Manchester
Kirkstall Forge, Ltd.	Leeds
Lang John, & Sons	Johnstone, nr. Glasgow
Llewellyn's Machine Co.	Bristol, England
Manlove, Alliott & Co., Ltd.	Nottingham
Newton, Bean & Mitchell	Dudley Hill, Bradford
Power Plant Co., Ltd.	West Drayton, Middlesex
Reay Gearworks, Ltd.	Gateshead-on-Tyne
Reid Gear Co.	Linwood, near Paisley
Shaw W., & Co.	Middlesbro'-on-Tees
Thornycroft J. I., & Co., Ltd.	Basinstoke
Tickle John, & Co., Ltd.	West Bromwich
Turbine Gears, Ltd.	Hyde, Cheshire
Unbreakable Pulley & Mill Gearing Co., Ltd.	48, West Gorton, Manchester
Wallwork Henry, & Co., Ltd.	Manchester
Wigglesworth, Frank, & Co.	Clutch Wks., Shipley, nr. Bradford

Wheels (Railway).

American Car & Foundry Co.	165, Broadway, New York, U.S.A.
Beardmore W., & Co., Ltd.	Glasgow
Birmingham Railway Carriage & Wagon Co. Ltd.	Smethwick, Birmingham
Firth Thos., & Sons, Ltd.	Norfolk Works, Sheffield
Glasgow Railway Engineering Co., Ltd.	Govan, Glasgow
Hadfields Limited	Hecla Works, Sheffield
Holcroft's Steel Foundry Co., Ltd.	Bilston, South Staffordshire
Hurst, Nelson & Co., Ltd.	Motherwell, N.B.
Midland Railway Carriage and Wagon Co., Ltd.	Midland Wks, Birmingham
Pickering R. Y., & Co., Ltd.	Wishaw, near Glasgow
Sankey Joseph, & Sons, Ltd.	Wellington, Shropshire

Wheels (Rawhide, &c.).

Angus George, & Co., Ltd.	Newcastle-on-Tyne
Armstrong Sir W. G., Whitworth & Co., Ltd.	8, Gt. George St., S.W. 1
British Thomson-Houston Co., Ltd.	Rugby
Reay Gearworks, Ltd.	Gateshead-on-Tyne
Wallwork Henry, & Co., Ltd.	Manchester

Whitewashing and Painting Machines.

Aerograph Co., Ltd.	43, Holborn Viaduct, E.C.
Airstyle & Lithos, Ltd.	35, St. Bride St., Ludgate Circus, E.C.
Wells A. C., & Co.	102, Midland Rd., N.W.

Winches.—(See *Cranes*.)

Windlasses.

Clarke, Chapman & Co., Ltd.	Gateshead-on-Tyne
Napier Bros., Ltd.	130, Hydepark St., Glas-
	gow, W.
Turnbull Alex., & Co., Ltd.	Bishopbriggs, Glasgow

Wire and Wire Rope Makers.

Birmingham Battery and Metal Co., Ltd.	Birmingham
Bolton Thomas, & Sons, Ltd.	57, Bishopsgate, E.C. 2
British Insulated & Helsby Cables Ltd.	Prescot, Lancashire
Brown W. B., & Co. (Bank- hall), Ltd.	Globe Works, Bankhall, Liverpool
Brunton W. N., & Son . . .	Muskeburgh, Scotland
Bullivant & Co. Ltd. . . .	72, Mark Lane, E.C.
Cradock Geo., & Co. Ltd. .	Wakefield [ham
Delta Metal Co., Ltd. . . .	Dartmouth St., Birming-
Elliot George, & Co. Ltd. .	16, Gt. George St., S.W.
Power J., & Co. (Leeds). .	Leeds
Johnson Richard, Clapham & Morris, Ltd.	Lever St., Manchester

**Wire Weaving, Straightening, Coiling, Cutting, &c.
(Machines for).**

Anderston Foundry Co., Ltd.	Glasgow
Cousland A., & Son ..	3, Mitchell St., Glasgow
Igranic Electric Co., Ltd...	147, Queen Victoria St., E.C.
Shuster F. B. Co...	Newhaven, Conn. U.S.A.
Sleeper & Hartley (Inc.) ..	Worcester, Mass., U.S.A.

Wood (Plastic).

Necol Industrial Colloids,
Ltd. 62, London Wall, E.C.2.

Wood (Three-Ply).

Ashworth John, & Co. .. Trafford Park, Man-
chester

Woodite for Steam, Electrical and Hydraulic Packings.
Woodite Co. Mitcham Common, Surrey

Wood-Wool Machinery.

Pickles John, & Son (Engineers), Ltd.
Ransome A., & Co., Ltd.

Hebden Bridge, Yorks.
Stanley Works, Newark-on-Trent

Wood-Working Machinery.

Broom & Wade, Ltd. . .	High Wycombe
Dempster, Moore & Co., Ltd.	Robertson St., Glasgow
Lees T. & R., Ltd. . .	Hollinwood, nr. Manchester.
Machinery & Steels, Ltd. . .	64, Great Eastern St., E.C. 2
Marshall, Sons & Co., Ltd.	Gainsborough
Pickles John, & Son (Engineers), Ltd. . .	Hebden Bridge, Yorks
Pollock, Macnab & Highgate	Shettleston, Glasgow
Ransome A., & Co., Ltd. . .	Stanley Works, Newark-on-Trent
Robinson Thos., & Son, Ltd.	Rochdale
Universal Machinery Corporation, Ltd.	326, Old Street, E.C. 2
Wadkin & Co.	London St., Leicester

Worm Gearing.

Bodley Bros. & Co. .. Old Quay Foundry, Exeter
Wallwork Henry, & Co., Ltd. Manchester

Yachts.—(See *Launches and Yachts.*)



MEMORANDA.

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LIST OF ADDRESSES, Telegraphic Addresses, Codes, & Telephone Numbers

OF

FIRMS NOW ADVERTISING in "ENGINEERING."

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
A-1 Manufacturing Co. , Sunbridge Rd., Bradford [Bradford 5152 & 5153		Patterns , Bradford
1 Abbott & Co. (Newark), Ltd., Newark-on-Trent	34	Abbott , Newark
Acetylene Corporation , Ltd., 49, Victoria St., S.W. ..	Victoria 4102	Flamma , London
Acheson E. G. , Ltd., 40, Wood St., S.W. 1	Victoria 9648	Oldag , Vic., London
1 16 Adamson Daniel & Co. , Ltd., Dukinfield	Ashton 9 & 609	Adamson , Dukinfield
Aerograph Co. , Ltd., 43, Holborn Viaduct, E.C. ..	Holborn 2041	Aerography , London
1 16 Agricultural & General Engineers , Ltd., Central House, Kingsway, W.C.2	Gerrard 6950	Agroengic , Phone, London Shipyards , Troon
11 Alisa Shipbuilding Co. , Ltd., Troon, N.B.	Troon 38, 39 & 58	
1 Alrostyle & Lithos , Ltd., 35, St. Bride St., Ludgate Circus, E.C.	Central 12025 Western 3650	Alrostyle , Fleet, London Automobile , Glasgow
1 4 27 Albion Motor Car Co. , Ltd., Scotstoun, Glasgow ..		
Aldrich Pump Co. , Allentown, Pa., U.S.A.		
Alexander E. P. , & Son, 306, High Holborn, W.C. ..	Central 7424	Epa , London
1 2 Alexander , George H., Machinery, Ltd., Coleshill St., Birmingham	Bir- Central 1918	Viking , Birmingham Alexson , Leeds
Alexander Herbert & Co. , Ltd., Leeds	Central 23274	Alldays , Birmingham
1 27 Alldays & Onions , Ltd., Birmingham	Victoria 487	Typhoon , Cent., London
Alldays & Onions , Ltd., 40 & 44, Holborn Viaduct, E.C. ..	Holborn 5948	Allen , Sheffield
1 2 16 Allen Edgar & Co. , Ltd., Imperial Steel Works, Sheffield	Attercliffe 360	Accelerator , Sowest, London
1 4 Allen-Liversidge , Ltd., 106, Victoria St., S.W. ..	Victoria 4155	Pump , Bedford
1 2 Allen W. H. , Sons, & Co., Ltd., Queen's Engineering Wks., Bedford ..		Pump , London
1 2 Allen W. H. , Sons, & Co., Ltd., 1, Queen Anne's Chmbs., S.W. [Victoria	[Victoria 3181	Alley , Glasgow
2 3 Alley & MacLellan , Ltd., Sentinel Works, Glasgow ..	Queen's Park 751	Alweprol , Phone, London
1 Alloy Welding Processes , Ltd., 14 & 16, Cockspur St., S.W. 1 [Gerrard	[Gerrard 3930	
American Car & Foundry Co. , 165, Broadway, New York, U.S.A.	Cortlandt 8110 Dalston 900	Carex , New York Eerit , London
1 16 American Lead Pencil Co. , 173-5, Lower Clapton Rd., N.E. ..		Jamsler , Schaffhouse
1 Amstel Alfred J. , & Co., Schaffhouse, Switzerland ..	Schaffhouse 4-84	
1 Anderson D. , & Son, Ltd., Lagan Works, Belfast	Belfast 4033, 4034 & 4035 Central 6260	Anderson , Belfast Aico , Glasgow
1 4 6 27 Anderson-Grice Co. , Ltd., Carnoustie, Scotland ..	Carnoustie 14	Diamond , Carnoustie
Andrews & Beaumont , 29, Southampton Buildings, W.C. 2 ..	Holborn 541	Andrubo , Phone, London.
1 4 6 Angus George & Co. , Ltd., Newcastle-on-Tyne .. ..	.. 956 & 957	Angus , Newcastle
1 4 Apex Steel Co. , Ltd., Penistone Rd., Sheffield	Central 4687	Apex , Sheffield
1 3 Archdale Jas. , & Co., Ltd., Ledsam St., Birmingham ..	Midland 2276	Archdale , Birmingham
Armstrong Mfg. Co. , 338, Knowlton St., Bridgeport, Conn., U.S.A. —		

Telegraphic Codes in use : 1 A B C. 2 A I. 3 Engineering. 4 Lieber's. 6 Private.
11 Scott's. 16 Western Union. 27 Marconi Wireless.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
4 16 33 Armstrong Sir W. G., Whitworth & Co., Ltd., 8 Great George St., Westminster, S.W. 1 Victoria 4010 Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham Central 6148 & 6149		Zigzag, Parl., London
1 3 4 Armstrongs & Main, Ltd., Australia House, Strand, W.C.2 City 5380		Armstrongs, Birmingham
1 Arnold Edward, 41 & 43, Madflox St., W. Mayfair 1883		Kelvin, Strand, London
1 Arrol Sir William, & Co., Ltd., Bridgeton, Glasgow .. Bridgeton 940-943		Scholarly, London
1 Ash Joseph, & Son, Rea Works, Rea St. South, Birmingham [Midland 2440		Tay, Glasgow
4 Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees [Stockton 501		Tanks, Birmingham
1 Ashworth John, & Co., Trafford Park, Manchester .. Trafford Park 350		Casholder, Stockton-on-Tees
1 4 Asquith William (1919), Ltd., Park Works, Halifax .. Halifax 1558		Fleximus, Manchester
1 4 Associated British Machine Tool Makers, Ltd., 17, Grosvenor Gardens, S.W. 1 Victoria 7660		Drill, Halifax
1 4 Aster Engineering Co. (1913), Ltd., Wembley, Middlesex [Wembley 22 & 23		Britoolmak, Phone, London
1 4 16 Atkins E. C., & Co., Inc., Indianapolis, Indiana, U.S.A. .. Main 6000		Aster, Wembley
1 Atlas Diesel Co., Ltd., 35, Surrey St., W.C. 2 .. Central 9067		Atkinsaw, Indianapolis
1 2 Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., B.C. City 4941 August's Muffle Furnaces, Ltd., King's Cross, Halifax, England Halifax 1447		Dieselmot, Strand, London Aloyan, Cannon, London
1 3 Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow [Bridgeton 256		August, Halifax
6 Avelling & Porter, Ltd., Rochester Chatham 500		Reducing, Glasgow
1 2 Avery W. & T., Ltd., Soho Foundry, Birmingham .. Smethwick 313		Avelling, Rochester
1 6 Avonside Engine Co., Ltd., Bristol Fishponds 30		Avery, Birmingham Loco, Bristol
1 16 20 Bagnall W. G., Ltd., Castle Engine Works, Stafford .. Stafford 321		Bagnall, Stafford
4 Bailey Sir W. H., & Co., Ltd., Albion Works, Salford, Manchester .. 991		Beacon, Salford
1 Baker Joseph, Sons & Perkins, Ltd., 21, College Hill, E.C. 4 .. City 748		Bakers, London
1 Balderston & Co., Ltd., 201, St. Vincent St., Glasgow .. Central 4750		Balderston, Glasgow
1 16 33 Baldwin Locomotive Works, The, 34, Victoria St., S.W. [Victoria 4441 1 16 Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A. —		Frikald, London
1 2 3 4 Barclay Andrew, Sons, & Co., Ltd., Caledonia Wks., Kilmarnock 10 & 11		Raldwin, Philadelphia
1 Barker, Spink, Lease & Co., Rosse Works, Shipley, Yorks 99		Barclayson, Kilmarnock
1 4 6 33 Barnard H. B., & Sons, Glyn St., Vauxhall, S.E. 11 Hop 4520		Lathe, Shipley
1 2 16 Barr, Thompson & Co., Ltd., Kilmarnock, Scotland .. Kilmarnock 71		Metalchies, Vaux., London
1 Barrett & Elers, Ltd., Wallis Rd., Hackney Wick, E. 9 East 887		Barr, Kilmarnock
1 20 Barry, Henry & Cook, Ltd., Aberdeen Aberdeen 3333		Ebonite, Phone, London
1 27 Bartoline (Hull), Ltd., Myton Place, Hull Corporation 107		Barry, Aberdeen
1 Bath T., & Co., 18, Savoy St., W.C.2 Regent 3336		Barton, Hull
1 Bassett-Lowke, Ltd., Northampton Northampton 735		Obatho, Rand, London
1 4 Bassanger, J. & C., Ltd., Audrey House, Ely Place, E.C. 1 [Holborn 4831		Bassett-Lowke, Northampton
1 2 16 Bayliss, Jones & Bayliss, Ltd., Wolverhampton 1041		Delidium, London
1 2 16 Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C. [Bank 680		Bayliss, Wolverhampton
1 Baynes Charles, Ltd., Knuzden Brook, Blackburn 6862		Lockfast, London
1 Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow Bridgeton 3100		Hacksaw, Blackburn
4 Beaudry & Co., Inc., Boston, Mass, U.S.A. —		Beardmore, Glasgow Hammer, Boston

Telegraphic Codes in use: 1 A B C. 2 A I. 3 Engineering. 4 Lieber's. 6 Private
16 Western Union. 20 McNeill's. 27 Marconi Wireless. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Beckenham Foundry, Kent House Rd., Beckenham, Kent		Sydenham 863	—
1 3 6 27 Bedford Engineering Co., Bedford	.. .. .	.. .. . 33	Cranes, Bedford
Beebe A., Wednesbury	.. .. .	Darlaston 81	Beebe, Fallings Heath, Wednesbury
Beeston & Stevenson, Ltd., Llanelly, Carmarthenshire		Llanelly 87	Furnaces, Llanelly
1 Beldam Packing & Rubber Co., Ltd., 29, Gracechurch St., B.C. 3	.. .. .	Avenue 5304	Veeplot, Led., London
Bellamy John, Ltd., Byng St., Millwall, B.	.. .. .	East 157	Bellamy, London
1 3 16 Bellis & Mercam, Ltd., Ledsam St. Works, Birmingham	.. .. .	Midland 2660	Bellis, Birmingham
2 16 Bell's United Asbestos Co., Ltd., 59½, Southwark St., S.B.	.. .. .	Hop 4040	Bellry or Asbestos, London
1 4 16 27 Beattie James, & Sons, Ltd., Clyde Engine Works, Govan, Glasgow	.. .. .	Govan 97	Ajax, Glasgow
1 Beattie Ed., & Co., Ltd., Little Hulton, Bolton	.. .. .	Farnworth 13	Beattie, Little Hulton, Bolton
Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow		[Douglas 1266]	Bergius, Glasgow
1 3 Berry F., & Sons, Sowerby Bridge, Yorkshire	.. .. .	.. Halifax 525	Berry, Sowerby Bridge
1 2 3 27 Berry Henry, & Co., Ltd., Croydon Works, Leeds	.. .. .	20181 & 20183	Riveter, Leeds
1 4 16 33 Bertrams Limited, Sciennes, Edinburgh	.. .. .	Central 6445-6	Bertram, Edinburgh
1 Bessemer Henry, & Co., Ltd., Sheffield	.. .. .	.. Central 91	Bessemer, Sheffield
1 16 33 Betts Machine Co., Rochester, New York, U.S.A.	.. .. .	Chase 4000	Betts, Rochester
1 3 Bever, Dorling & Co., Ltd., Bowling Ironworks, Bradford	.. .. .	1644	Foundry, Bradford
1 Beyer, Peaceock & Co., Ltd., Gorton Foundry, Manchester	.. .. .	Central 5663	Loco, Gorton
1 Billington & Newton, Ltd., Longport, Stoke-on-Trent	.. .. .	Potteries 384	Bronze, Longport
1 2 3 Birch John, & Co., Ltd., 2, London Wall Buildings, B.C.	.. .. .	.. City 4175	Endeavour, London
1 Birmingham Battery & Metal Co., Ltd., Birmingham	.. .. .	.. 51 & 52	Battery, Selly Oak
1 16 Birmingham Railway Carriage & Wagon Co., Ltd., The Smethwick, Birmingham	.. .. .	Smethwick 286	Carriage, Smethwick, Birmingham
1 2 3 4 Blackstone & Co., Ltd., Rutland Works, Stamford	.. .. .	.. Four Lines	Blackstone, Stamford
1 4 16 27 33 Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks	.. .. .	.. Private Branch Exchange 228	Blakeboroughs, Brighouse
Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E.		.. East 29	Blundell, Pop., London
Boby, Robert, Ltd., Bury St. Edmunds, Suffolk	.. .. .	.. 3	Screens, Bury St. Edmunds
Bodley Bros. & Co., Old Quay Foundry, Exeter	.. .. .	.. 189	Bodley, Exeter
1 2 4 16 Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, B.C. 2	.. .. .	Central 632	Wiredrawn, Led., London
1 3 Booth John, & Sons, Hulton Steel Works, Bolton	.. .. .	Bolton 1195	Irony, Bolton
1 3 Booth Joseph, & Bros., Union Ironworks, Rodley, Leeds	.. .. .	Stanningley 20	Cranes, Rodley
1 Boulton & Paul, Ltd., Norwich	.. .. .	.. Norwich 851	Boulton, Norwich
1 16 Boving & Co., Ltd., 56, Kingsway, W.C. 2	.. .. .	Holborn 6420	Jenortien, Phone, London
Bowran, Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on-Tyne		.. National 1780	Bowran, Newcastle-on-Tyne
Braby Fred., & Co., Ltd., Fitzroy Wks., 352-364, Buxton Rd., N.W. 1	.. .. .	.. Museum 3632	Courteous, Easroad, London
1 2 3 Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield	.. .. .	3	Craven, Wakefield
Bradley & Foster, Ltd., 105, Colmore Row, Birmingham	.. .. .	Central 1287	Steelmeets, Birmingham
1 5 20 Bradley Pulverizer Co., 37, Walbrook, B.C.	.. .. .	Central 1903	Equestrian, London
1 Braine T. F., & Co., Ltd., Hunslet, Leeds	.. .. .	Leeds 23012	Braine, Hunslet, Leeds
1 33 Brathwaite & Co. (Engineers), Ltd., 117, Victoria St., S.W. 1	.. .. .	[Victoria 8573]	Bromkirk, Seward, London
Brampton Bros., Ltd., Birmingham	.. .. .	East 185 & 186	Brampton, Birmingham
1 2 Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell	.. .. .	11	Glider, Motherwell
1 Brecknell, Munro & Rogers, Ltd., Thrissell St., Bristol	.. .. .	.. 3137, 3138	Brecknell, Bristol
1 6 Brett's Patent Lifter Co., Ltd., Coventry 168	Lifter, Coventry
Brett's Stamping Co., Ltd., Harnall Lane, Coventry 1102	Brett's, Coventry

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NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 3 16	Bridge David, & Co., Ltd., Castleton, Manchester ..	Rochdale 25	Coupling, Castleton, Manchester
1	Brighside Foundry & Engineering Co., Ltd., Sheffield	Central 5210	Castings, Sheffield
1	Briquette Machinery, Ltd., Charnmouth St., Leeds ..	Leeds 23274	Briquette, Leeds
	British Commercial Gas Association, 30, Grosvenor Gardens, S.W. 1	Victoria 4344	Gaspreme, London
1 16	British Electric Plant Co., Ltd., 66, Garrick St., Glasgow	Central 5724-5	Bepco, Glasgow
1 2 3 4 16	British Everite & Asbestillite Works, Ltd., 29, Peter St., Manchester ..	City 7790	Everite, Manchester
1	British Fibrocement Works, Erith, Kent ..	Erith 89	Fibrocemen, Erith, Kent
1	British Hele-Shaw Patent Clutch Co., Ltd., Oldham, England	Oldham 1133	Prehension, Oldham
	British Insulated & Helsby Cables, Ltd., Prescott, Lancs. ..	Prescot 71	Insulator, Prescot
1 16	British L.M. Ericsson Mfg. Co., Ltd., 60 Lincoln's Inn Fields, W.C. 2 ..	Holborn 5340	Ericsson, Fleet, London
1	British Niclausse Boiler Co., Ltd., The Clock House, Arundel Street, Strand, W.C. 2 ..	Central 294	Britnicles, Westrand, London
1	British Piston Ring Co., Ltd., Holbrook Lane, Coventry	Coventry 1214	Pistorings, Coventry
	British Ropeway Engineering Co., Ltd., 7, Mincing Lane, E.C. 3	Central 11250	Boxhauling, Fen., London
1 16 33	British Steel & Iron Exporters, Ltd., 22 & 23, Laurence Pountney Lane, E.C. 4 ..	City 3338	Makepeace, London
	British Steam Specialties, Ltd., Bedford St., Leicester ..	Central 1085	Boar, Leicester
4	British Thomson-Houston Co., Ltd., Rugby ..	286	Asteroidal, Rugby
	British Vacuum Cleaner Co., Ltd., Parson's Green Lane, S.W. ..	Putney 2470 Two Lines	Vacuumiser, Walgreen, London
	Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire ..	48	Ingot, Briton Ferry
1 2 4	Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield ..	1581	Broadbent, Huddersfield
1	Brook, Hirst & Co., Ltd., Northgate Electrical Works, Chester	Chester 971	Switches, Chester
1 4	Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet, Birmingham ..	Victoria 551	Sawn, Birmingham
	Brookes & Adams, 250-252, Barr St., Hockley, Birmingham ..	North 23	Teloba, Birmingham
	Broom & Wade, Ltd., High Wycombe ..	245 & 246	Broom, High Wycombe
1	Brotherhood Peter, Ltd., Peterborough ..	Peterborough 70	Brotherhood, Peterborough
	Broughton Copper Co., Ltd., 6, Broad St. Place, E.C. ..	Central 6589	Copper Co., London
	Broughton Copper Co., Ltd., Manchester ..	Central 6907	Copper Co., Manchester
1 3 4	Browett, Lindley & Co., Ltd., Patricroft, Manchester ..	Eccles 510	Sandon, Patricroft
1 4	Brown David, & Sons (Huddersfield), Ltd., Park Works, Lockwood, Huddersfield ..	1080 Three Lines	Gearing, Huddersfield
2 3 4 15	Brown Helsting Machinery Co., Cleveland, Ohio, U.S.A. ..	—	BrownHst, Cleveland, U.S.A.
1 4 33	Brown John, & Co., Ltd., Sheffield ..	Central 29	Atlas, Sheffield
	Brown, Lenox & Co. (London), Ltd., Millwall, E. ..	East 700	Lenox, Millwall
1 2	Brown W. B., & Co. (Bankhall), Ltd., Bankhall, Liverpool	Booth 213 & 443	Vires, Liverpool
3 16 33	Browning Co., Cleveland, Ohio, U.S.A. ..	Eddy 2240	Browning, Cleveland
	Brownlie & Green, Ltd., Church St., Cheetham, Manchester	Cheetham Hill 38	Analytical, Manchester
1	Brundrit Joseph, 14, Water St., Liverpool ..	Central 439	Segment, Liverpool
	Brunton W. N., & Son, Musselburgh, Scotland ..	28	Wiremill, Musselburgh
1 16 33	Brush Electrical Engineering Co., Ltd., Loughborough, Leicestershire ..	Loughborough 624	Falcon, Loughborough
1 4 16	Buck & Hickman, Ltd., 2-6, Whitechapel Rd., E. 1	Avenue 7540	Roebuck, Phone, London
	Bucyrus Co., Idlesleigh House, Caxton St., S.W. 1 ..	Victoria 3250	Westcelite, London
1 3	Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester	Altrincham 840	Budenberg, Altrincham

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 16 Western Union. 15 Atlantic Cables. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
33 Buhning's Patent Water Purifying Co., 146A, Queen Victoria Street, E.C.			
		Central 1294	Aquapure, Cent., London
4 Bullard Machine Tool Co., Conn., U.S.A.		—	Bullard, Bridgeport
Bullivant & Co., Ltd., 72, Mark Lane, E.C.		Avenue 2106	Bullivants, Fen., London
Bull's Metal & Melfield Co., Ltd., Yorker, nr. Glasgow		Clydebank 182	Melfield, Yorker
1 2 4 11 Burmeister & Wain, Ltd., Copenhagen C., Denmark		9870 & 3225	Burmesters, Copenhagen
1 4 Burton, Griffiths & Co., Ltd., 64 to 70, Vauxhall Bridge Rd., S.W. 1		Victoria 6747	Callcrom, Churton, London
Butcher Henry, & Co., 63-64, Chancery Lane, W.C.2		Holborn 741	Penetrancy, Holborn, London
1 4 27 Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax		1013	Butler, Halifax, England
1 Butler Samuel, & Co., Ltd., Stanningley, near Leeds		Stanningley 176	Litting, Stanningley
Butterfield W. P., Ltd., Shipley, Yorks, England		Shipley 33	Tanks, Shipley
16 Butterley Co., Ltd., Derby		Ripley 75 & 76	Ironworks, Butterley
Butterworth Bros., Ltd., Newton Heath Glas Wks., Manchester		Fallsworth 23	Glasses, Newton Heath
4 16 33 Buyers of Scrap Metal, Ltd., Glyn St., Vauxhall, S.E. 11		Hop 4520	Scraban, Vaux., London
Caird & Rayner, 777, Commercial Rd., Limehouse, E. . .		East 210	Vaporise, London
Calders, Ltd., 10A, George St., Edinburgh		Central 1212	Rediac, Edinburgh
1 Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St., Glasgow		Central 1434	Indicator, Glasgow
1 Cameron John, Ltd., Oldfield Rd. Ironworks, Salford		Central 2902	Original, Manchester
1 2 16 Cammell Laird & Co., Ltd., Cyclops Steel & Ironwks, Sheffield		Central 3800	Cammellaird, Sheffield
1 3 Campbell & Calderwood, Soho Works, Paisley, Scotland		2754	Soho, Paisley
1 33 Campbell & Isherwood, Ltd., Bootle, nr. Liverpool		Bootle 1474	Pressure, Liverpool
1 3 4 6 Campbell Gas Engine Co., Ltd., Halifax, England		1670	Cargas, Halifax
Campbells & Hunter, Ltd., Dolphin Foundry, Leeds		Leeds 22397	Dolphin, Leeds
1 16 Carols Diesel & Steam Engines (London), Ltd., Carlton House, Regent St., S.W. 1		Regent 3484	Dieselben, Piccy., London
Carron Company, Carron, Stirlingshire		Falkirk 37	Carronade, Falkirk
1 6 Carruthers J. H., & Co., Ltd., Polmadie Ironwks., Glasgow		Queens Park 34	Hoisting, Glasgow
Casartelli J., & Son, 18, Brown Street, Manchester		City 2958	Casartelli City 2958, Manchester
Cawood G. R., & Co., 4, South Parade, Leeds		Leeds 24179	Ranford, Leeds
Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lancs.		Bootle 1170	Chadburn, Liverpool
1 Chalmers Wm., & Co., Ltd., Rutherglen, Scotland		Rutherglen 459	Scow, Rutherglen
1 Chambers, Scott & Co., Ltd., Motherwell		63	Energy, Motherwell
1 Chandler, Lindsay & Co., 11 to 13, Upper East Smithfield, E. 1		Avenue 423	Blockeries, Ald., London
Chaplin Alex., & Co., Ltd., Govan, Glasgow		Govan 641	Chaplin, Glasgow
Chapman & Hall, Ltd., 11, Henrietta St., W.C.		Gerrard 2711	Pickwick, Rand, London
Charpillies, Daniel, Freres & Co., 63, Queen Victoria St., E.C.		Bank 8105	—
1 Chatwin Thos., Ltd., Great Tindal St., Birmingham		Midland 2530	Chatwin, Birmingham
1 Chesterfield Tube Co., Ltd., Chesterfield		Chesterfield 61	Tubes, Chesterfield
1 4 6 Christy & Norris, Ltd., Chelmsford, England		Chelmsford 292	Engineering, Chelmsford
1 4 Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.		Clerkenwell 1188	Opodeldoc, London
1 Citroën Gear Co., Ltd., 22, Buckingham Gate, S.W. 1		Victoria 7193	Helical, Sowest, London

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NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 2 3 4 6 } 13 16 24 }	Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne {	Central 1070 & 1073 City 137	Cyclops, Gateshead
1	Clarke's Crank & Forge Co., Ltd., Lincoln	406	Cranks, Lincoln
1 16 27	Clay Cross Co., Ltd., Clay Cross, near Chesterfield ..	Chesterfield 479	Jackson, Clay Cross
	Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds ..	20226	Gas, Leeds
1 2 4 6	Clayton Wagons, Ltd., Titania Works, Lincoln ..	Lincoln 477	Titanic, Lincoln
1 2 4 6	Clayton & Shuttleworth, Ltd., Lincoln, England ..	Lincoln 760	Claytons, Lincoln
1	16 Cleveland Bridge & Engineering Co., Ltd., Darlington ..	2710	Cleveland, Darlington
4	Clifton & Baird, Ltd., Empress Works, Johnstone, Scotland ..	Johnstone 121	Empress, Johnstone
	Clifton & Waddell, Johnstone, near Glasgow	23	Cliffdell, Johnston
	Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow	Western 2953	Corrugated, Glasgow
1	Clyne Engineering Co., Ltd., 94, Market St., Manchester ..	City 4070	Modernize, Manchester
4 6	Coats Machine Tool Co., Ltd., 14, Palmer St., Westminster, S.W.	Victoria 2518 & 1509	
1	Cochran & Co. (Annan), Ltd., Annan, N.B.	2	Oolcomachi, Vic., London
1 3 4 27	Cochrane John (Barrhead), Ltd., nr. Glasgow	Barrhead 61 & 62	Multitube, Annan
1 3	Cockburn A., & Co., Gateside St., Glasgow	Bridgeton 3214	Cochrane, Barrhead
1 4	Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow ..	Govan 361	Pressure, Glasgow
1 6	Cole Henry A., & Co., Ltd., Coronet Works, Liverpool ..	[Bank 4909]	Cockburn, Glasgow
1 2 3 4 16	Cole, Marchant & Morley, Ltd., Bradford	Bradford 4744	Satisfactory, Liverpool
	Coles H. J., Ltd., London Crane Works, Derby	Derby 1266	Cole, Bradford
1	Coltman H., & Sons, Loughborough	27	Coles, Derby
1	Coltman Walter W., & Co., Ltd., Central Boiler Wks., Loughborough ..	51	Coltmans, Loughborough
6 16	Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 329, High Holborn, W.C.1	Holborn 1562	Bollers, Loughborough
1 10	Colville David, & Sons, Ltd., 195, West George St., Glasgow [Central 5290		Integral, Holborn, London
1 10	Colville David, & Sons, Ltd., 54, Old Broad St., E.C. London Wall 1469		Colville, Glasgow
	Compendium Publishing Co., 93-94, Chancery Lane, W.C.2 ..	Holborn 1768	Colville, London
1 33	Consolidated Brake & Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W.1	Victoria 3907	
1 4 6 33	Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly, W.1	Gerrard 3215	Vacuo, Vic., London
	Constable A., & Co., Ltd., 10, Orange St., Leicester Sq., W.C. [Regent 3827		Caulking, Piccy., London
27 33	Constructional Engineering Co., Ltd., Charles Henry St., Birmingham ..	Midland 2182	Dhagoba, Westminster, London
	Conveyor & Elevator Co., Ltd., Accrington, Lancashire ..	2779	Structural, Birmingham
	Cooke James, & Son, 8 & 9, Wrentham Street, Birmingham [Mid. 1611		Conveyor, Accrington
1	Cooke T., & Sons, Ltd., Buckingham Works, York	310	Horology, Birmingham
1 16	County Chemical Co., Ltd., Chemico Works, Birmingham ..	Midland 1720	Coordinate, York
	Cousland A., & Son, 3, Mitchell St., Glasgow	City 7532	Hilda, Birmingham
1 4 16 27	Coventry Chain Co., Ltd., Coventry	830	Screened, Glasgow
1 2	Cowans, Sheldon & Co., Ltd., Carlisle	13	Chains, Coventry
	Craddock Walter, 17 & 19, Brook St., London Rd., Manchester		St. Nicholas, Carlisle
1 2	Cradley Boiler Co., Ltd., Cradley Heath, Staffordshire ..	Cradley 53	
1 2 3 16	Craddock Geo., & Co., Ltd., Wire Rope Works, Wakefield ..	Central 466	Boiler, Cradley Heath
1 4 16 20	Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley ..	2191 & 2192	Craddock, Wakefield
	Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B. ..	15	Craig, Paisley
1 6 27	Crane-Bennett, Ltd., 45-51, Leman St., E.1.	Avenue 8062-3	Craig-Donald, Johnstone
1 4	Craven Brothers (Manchester), Ltd., Vauxhall Works, Reddish, Stockport	Heaton Moor 421	Spruceoness, Phone, London
			Craven, Reddish

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10 Cosmopolitan. 13 Watkin's. 16 Western Union. 20 McNeill's. 24 Broomhall's.
27 Marconi Wireless. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 Crosswells' Ltd., Wellington Mills, Bradford	950	Asbeston, Bradford
1 27 Crockett Wm., & Sons, Ltd., 64, Darnley St., Glasgow (Pollockshields)	357	Crockett, Glasgow
1 3 4 33 Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorks..	Bradford 4901	Crofters, Bradford
1 4 16 27 Crompton & Co., Ltd., Salisbury House, London Wall, E.C. 2	London Wall 4734	Crompton, Phone, London
Crosby Valve & Engineering Co., Ltd., 41-42, Foley St., W.1	Museum 4343	Crosby, London
2 3 4 16 Croxley Bros., Ltd., Openshaw, Manchester	City 4300	Gasengine, Manchester
Croxley H. & P., and Ackroyd, Mytholmroyd, Yorks. ..	—	Precision, Mytholmroyd
1 Crowther Henry, & Sons, Ltd., Cleckheaton, Yorkshire	Cleckheaton 43	Henry Crowther, Cleckheaton
Cuffin W. H., North Evington, Leicester	Central 2637	Cuffin, Leicester
4 6 16 Cushman Chuck Co., Hartford, Conn., U.S.A.	—	Cushman, Hartford
1 Custodie, Ltd., 119, Victoria St., S.W. 1	Victoria 779	Custodimus, Sower, London
1 Dalglish, A. & W., West of Scotland Boiler Works, { Pollokshaws 141 } Pollokshaws, Glasgow { Queen Park 261 }		Evaporate, Pollokshaws
Dallow, Lambert & Co., Ltd., 28, King St., Leicester	Leicester 2100	Thermovent, Leicester
1 Daniell S. A., Ltd., Edward St., Parade, Birmingham ..	Central 5045	Daniell, Birmingham
1 Daniels T. H. & J., Ltd., Stroud, Glos. .. ..	.. Stroud 236	Daniels, Stroud
1 Danks H. & T., (Netherton), Ltd., Netherton, Dudley ..	.. Cradley 25	Danks, Netherton, Dudley
1 Dargue Acetylene Gas Co., Ltd., Grey St., Newcastle-on-Tyne .. ..	.. Central 227	Carbide, Newcastle-on-Tyne
Dargue Brothers, Ltd., Simplot Works, Halifax, England ..	.. 1473	Simplot, Halifax
1 4 16 Darlington Forge, Ltd., Albert Hill, Darlington .. ..	.. 2610	Forge, Darlington
1 Davenport Engineering Co., Ltd., Harris Street, Bradford (Bradford)	3350	Humidity, Bradford
2 3 5 6 Davey, Faxman & Co., Ltd., Standard Ironworks, Colchester..	53	Faxman, Colchester
2 3 5 6 Davey, Faxman & Co., Ltd., Central House, Kingsway, W.C. 2 (Gerrard)	6850	Faxman, Phone, London
1 3 4 16 Davidson & Co., Ltd., Sirocco Engineering Works, Belfast ..	.. 4341	Sirocco, Belfast
Davie Bros., Ltd., 57, Hope St., Glasgow .. ..	.. Central 1908	Ratchet, Glasgow
Davies & Metcalfe, Ltd., Romiley, Manchester	Stockport 2719	Exhaust, Romiley
Davis E. J., Great Eastern Rd., Stratford, E. 15	Stratford 736 & 737	Rapidising, London
Davis Furnace Company, Diamond Foundry, Luton, Beds.	Luton 260	Castings, Luton
1 Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh ..	.. Leith 634	Kinn, Leith
1 16 27 Davy Brothers, Ltd., Sheffield .. ..	.. 4800	Motor, Sheffield
Dawson & Downie, Ltd., Elgin Wks., Clydebank, Scotland (Clydebank)	92	Pumps, Clydebank
116 27 33 Dawson James & Son, Ltd., Boulton Works, Lincoln	Lincoln 377	Dawsons, Lincoln
1 Day, Summers & Co., Ltd., Northam Ironworks, Southampton ..	.. 48	Day Summers, Southampton
1 6 De Laval Steam Turbine Co., 150, Southampton Row, W.C.	(Museum 6178	Avaltur, Westcent, London
1 Delta Metal Co., Ltd., East Greenwich, S.E.	Greenwich 123	Delta, Eastgren., London
1 Delta Metal Co., Ltd., Dartmouth St., Birmingham ..	.. Central 3206	Extrusion, Birmingham
Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow	Central 3905	Dempster, Glasgow
Dempster Robert, & Sons, Ltd., Elland, Yorks .. ..	.. Elland 261	Dempster, Elland
4 Denison, Saml., & Son., Ltd., 28, Victoria St., S.W. 1	Victoria 1883	Denwatest, Vic., London
16 Denison Manufacturing Co., Ltd., 52, Kingsway, W.C. 2	Holborn 2376	Tagservice, Moib., London
Dennystown Forge Co., Dumbarton .. ..	.. 56	Forge, Dumbarton
1 4 33 Dick R. & J., Ltd., Greenhead Works, Glasgow .. ..	.. Bridgeton 3135	Guttaapercha, Glasgow
Dixon Geo. N., & Co., 41, Castle St., Liverpool .. ..	.. Bank 3833	Tenacity, Liverpool
1 16 33 Dixon Joseph, Crucible Co., 28, Victoria St., S.W. 1	Victoria 1754	Crucigraph, Vic., London

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6 Private. 10 Western Union. 27 Marconi Wireless. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.

TELEPHONE
NUMBER.

TELEGRAPHIC ADDRESS.

	Dixon T. H., & Co., 74 & 76, Vicarage Lane, Stratford, E. 17	[Stratford 589	—
1 6	Dixon's White, Ltd., Albion Wharf, Bow, E.	East 1246	Dryolene, Bochurch, London
	Dobbie, Melnes, & Clyde, Ltd., 57, Rothwell St., Glasgow	Central 2912	Compass, Glasgow
	Dominion Malleable, Ltd., Etna Works, Smethwick	Smethwick 289	Castings, Smethwick
4 27 33	Donkin Co., Ltd. (The Bryan), Chesterfield	.. .. 84	Donkin, Chesterfield
1 2 3 20	Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.	105	Douglas, Kirkcaldy
1	Douglas Lawson & Co., Birstall, near Leeds	.. .. Batley 135	Pulleys, Birstall
	Downton J., & Co., Ltd., Hamilton, Scotland	.. .. Douglas 2014	Pumps, Hamilton
	Dowson & Mason Gas Plant Co., Ltd., 3, Manchester St., W. 1	[Langham 2836	Petropump, Baker, London
	Dowson & Mason Gas Plant Co., Ltd., Manchester	Heaton Moor 261	Gasify, Levenshulme
	Doxford William, & Sons., Ltd., Sunderland	.. .. 412-414	Doxford, Sunderland
1	Drum Engineering Co., Ltd., 28, Humbolt St., Bradford	.. .. 2358	Drum, Bradford
1	Drummond Brothers, Ltd., Engel Works, near Guildford	.. .. 153	Lathes, Stoughton
1 3 4 16	Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow	Clydebank 111	Bonaccord, Glasgow
	Dublin Dockyard Co., Ltd., North Wall, Dublin	.. .. 23 & 24	Dockyard, Dublin
	Dudbridge Iron Works, Ltd., Stroud, Gloucestershire	.. .. Stroud 137	Iron, Caincross
	Dunglison, B., Oxford House, 9, Oxford St., W.	.. .. Gerrard 4188	—
1	Dunkerley C. C., & Co., Ltd., Store St., Manchester	Central 6490-5	Ajax, Manchester
27	Dunlop & Ranken, Ltd., 9, Park Lane, Leeds	.. .. Leeds 27301	Sections, Leeds
4 33	Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham	.. .. East 920	Covers, Birmingham
	East Perry Road Eng. Works Co., Ltd., Millwall, E. 14	East 3848-9	Hydrostatic, Phone, London
1	Edmeston Archibald, & Sons, Ltd., Patricroft, nr. Manchester	[Central 3266	Edmeston, Patricroft
1 27	Electric Apparatus Co., Ltd., South Lambeth Rd., S.W. 8	[Brixton 2074	Elastratus, Vaux., London
1 2 4 16	Electric Construction Co., Ltd., 9, New Broad St., E.C. 2	Central 10920	Concordance, Ave., London
	Electric Control, Ltd., Bridgeton, Glasgow	.. .. Bridgeton 298 & 299	Control, Glasgow
	Electric Lamp Manufacturers' Association of Great Britain, Ltd., 25, Bedford Square, W.C. 1	.. .. Museum 7828	Britelma, Westcent, London
1	Electro-Mechanical Brake Co., Ltd., Eagle Works, West Bromwich	.. .. West Bromwich 291	Brakes, West Bromwich
1 16	Electro-Metals, Ltd., Imperial Buildings, 56, Kingsway, W.C. 2	{ Holborn 6470 Three Lines }	Processes, Westcent, London
1	Electromotors, Ltd., Openshaw, Manchester	.. .. Central 7094	Magnet, Manchester
1	Electromotors, Ltd., 49, Queen Victoria St., E.C.	.. .. City 5370	Orders, Cannon, London
	Elliot George, & Co., Ltd., 16, Great George St., S.W.	.. .. Victoria 897	Elliot Company, London
	Elliot George, & Co., Ltd., Cardiff	.. .. 175	Elliot Company, Cardiff
6 16 27	Ellison George, Perry Bar, Birmingham	.. .. Northern 740	Induction, Birmingham
	Ellison W. T., & Co., Ltd., Irlams-o'-th'-Height, Manchester	.. .. Pendleton 30	Turnstiles, Manchester
1 4	Elliston, Evans & Jackson, Ltd., 13, Cross St., Finsbury, E.C. 2	.. .. Clerkenwell, 1924 & 1925	Elevanja, Finsquare, London
1	Empire Engineering Co. (Manchester), Ltd., Salford, Manchester	.. .. Pendleton 339	Appliances, Manchester
1	Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W. 1	[Victoria 4951	Empireste, Vic., London
1 16	"Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.	.. .. Gerrard 3663 & 8598	Engineering, Westrand, London
1	Engineering Supplies, Ltd., 11, Queen Victoria St., E.C. 4	.. .. City 2660	Proells, Vic., London
1 4 16 33	English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C. 2	.. .. Holborn 830	Enelectico, Westcent, London
1 33	Enstone T. C., & Co. (Successors), Ltd., Evelyn Rd., Greet, Birmingham Victoria 370	Enscolld, Birmingham.

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16 Western Union. 20 McNeill's. 27 Marconi Wireless. 33 Bentley's.

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1 6 Entwistle & Gass, Ltd., Bolton	Bolton 1339	Foundry, Bolton
1 4 16 Eicher, Wyss & Co., 20, Grosvenor Gardens, S.W.1 ..	Victoria 9120	Esawycso, Sowest, London
1 4 Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton ..	39	Evans, Wolverhampton
1 33 Everitt Allen, & Sons, Ltd., Smethwick, Birmingham ..	Smethwick 28	Everitt, Birmingham
1 2 4 5 16 Everitt & Co., Ltd., 40, Chapel St., Liverpool	Central 1134	Persikent, Liverpool
Ewart Chainbelt Co., Ltd., Derby	Derby 139	Chainbelt, Derby
Expanded Metal Co., Ltd., York Mansions, York St., Westminster, S.W.	{ Victoria 8809 } Two Lines	Distend, Vic., London
Fairclough Harry, Howley, Warrington	214	Warrington 214
1 Farrar Boller Works, Ltd., Lincoln	406	Crank's, Lincoln
2 16 33 Fawcett, Preston & Co., Ltd., Liverpool	Royal 1773, 2664	Fawcett, Liverpool
1 27 Fellows Bros., Ltd., Cradley Heath, Staffs.	35	Fellows, Cradley Heath
1 Ferguson Brothers (Port Glasgow), Ltd., Port-Glasgow ..	26	Dredger, Port-Glasgow
1 27 33 Ferguson Pailin, Ltd., Higher Openshaw, Manchester ..	Openshaw 329	Tension, Manchester
Ferode, Ltd., Sovering Mills, Chapel-en-le-Frith	19	Friction, Chapel-en-le-Frith
4 16 33 Ferranti, Ltd., Hollinwood, Lancashire	Fallsforth 161	Ferranti, Hollinwood
1 2 4 Fielding & Platt, Ltd., Atlas Works, Gloucester	58	Atlas, Gloucester
File Forge Co., Ltd., Kirkcaldy, Scotland	16	File Forge, Kirkcaldy
4 20 Figeo, Ltd., Haarlem, Holland	—	Figeo-Haarlem
Findlay Alex., & Co., Ltd., Motherwell, near Glasgow ..	Motherwell 19	Findlay, Motherwell
Finney George, & Co., Berkley St., Birmingham	Midland 339 & 1970	Yennif, Birmingham
1 2 4 16 Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield ..	Central 3330	Firth, Sheffield
Firth Thos., & Sons, Ltd., 8, The Sanctuary, S.W.	Victoria 8310	Mesmerie, Vic., London
Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow ..	Argyle 51	Firme, Glasgow
1 4 Fisher, Humphries & Co., Ltd., Atlas Works, Pershore ..	Pershore 20	Fisher, Pershore
Flomling & Ferguson, Ltd., Paisley, near Glasgow	2648	Phoenix, Paisley
2 3 4 16 Fletcher George, & Co., Ltd., Litchurch, Derby	Derby 817	Amarilla, Derby
1 16 Fletcher Malleable Foundries, Ltd., Litchurch Lane, Derby	[Derby 221	Foundries, Derby
1 Forbes Bros., Doe St., Birmingham	Central 837	Universe, Birmingham
Foster Brothers, Ltd., Wednesbury	9	Festers, Wednesbury
1 Foster Instrument Co., Letchworth, Herts.	Letchworth 26	Foster Instrument, Letchworth
1 2 5 Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., B.C. ..	City 6509	Steamplow, London
1 2 5 Fowler John, & Co. (Leeds), Ltd., Steam Plough Wks., Leeds	Leeds 21641	Fowler, Leeds
France & Morgan, Whitefield Brass Wks., Govan, Glasgow ..	Govan 469	France, Glasgow
1 4 6 16 Fraser & Chalmers Engineering Works, Erith, Kent ..	[Erith 168	Vanner, Erith
1 2 33 Fraser Douglas, & Sons, Ltd., Westburn Foundry, Arbroath ..	133	Fraser, Arbroath
Friedenthal, Ltd., River Engine Works, Preston	235	Screw, Preston
Fuller-Lehigh Co., Fullerton, Pa., U.S.A.	—	Carwheel
Fuller, Horsey, Sons & Cassell, 11, Billiter Sq., E.C.	Avenue 3068	Fuller Horsey, London
3 16 27 Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley	2163	Vulcan, Paisley
2 3 4 Galloways, Ltd., Manchester	Central 6312-3-4	Galloway, Manchester
1 3 Gardner L., & Sons, Ltd., Patricroft, Manchester	Eccles 401	Theorem, Patricroft
1 Garrett R., & Sons, Ltd., Leiston Works, Suffolk	16	Garrett, Leiston
1 Garisherrle Engineering & Forge Co., 50, Wellington St., Glasgow	Central 2556	Forgings, Glasgow

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6 Private. 16 Western Union. 27 Marconi Wireless. 29 Mercury. 33 Bentley's.

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1 2 4 6 16	General Electric Co., Ltd., Magnet House, Kingsway, W.C. 2	Regent 7050	Electricity, Westcent, London
	Ghlon J., Finsbury Pavement House, Moorgate, E.C.2	London Wall 950	Ghions, Ave., London
	Gibbins R. C. & Co., Berkley St., Birmingham	Midland 244	Gibbins, Birmingham
	1 Gibbons Bros., Ltd., Dibdale Works, Dudley, Worcs.	Dudley 2450	Gibbons, Lower-Gornal
1 4 16 33	Gilbert Gilkes & Co., Ltd., Kendal, England	Kendal 28	Gilkes, Kendal
	Gilman Frank, Wilders Drive, Warwick Rd., Birmingham		
	Gladstone, Ltd., Vulcan Rivet Works, Stockton-on-Tees	Edgbaston 1081	Rotherwood, Birmingham
	1 4 Glasgow Iron & Steel Co., Ltd., Wishaw	81	Gladstone, Ltd., Stockton-on-Tees
	Glasgow Railway Engineering Co., Ltd., Govan, Glasgow	Wishaw 2	Ingot, Wishaw
	2 Glenfield & Kennedy, Ltd., Kilmarnock, N.B.	Govan 53	Expansion, Glasgow
1 27 33	Gleniffer Motors, Ltd., Annesland, Glasgow	28	Glenfield, Kilmarnock
	1 4 Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W.	Western 3253	Glengine, Glasgow
	Goodacre Wm., & Sons, Ltd., Victoria Docks, E.16	Victoria 2671	Pneumatoid, Vic., London
	1 4 Goodwin, Barsby & Co., Leicester	East 1740	Goodacre, London
	1 Govan Shafting & Engineering Co., Ltd., Govan, Glasgow	Central 2134	Goodwin, Ironfounder, Leicester
	1 Grafton & Co., Bedford	Govan 653 & 654	Pedestal, Glasgow
	1 Grafton & Co., 120, Cannon St., B.C.	249	Grafton, Bedford
	1 Grantham Boiler & Crank Co., Ltd., Grantham	—	Graftonian, London
1 16	Graphite Products, Ltd., 218-220, Queen's Rd., S.W. 8	Battersea 227	Land Grantham
	Great Western Railway Co., Paddington Station, W. 2	Paddington 7000	Lutrose, Phone, London
	1 Green & Boulding, Ltd., 162A, Dalston Lane, E.8	Dalston 1033	—
1 2 3 4 16	Green, E., & Son, Ltd., Wakefield	443	Temperature, Phone, London
	1 Gresham & Craven, Ltd., Salford, Manchester	Central 613	Economiser, Wakefield
	Grice, Grice & Son, Ltd., Nile St., Birmingham	Midland 22	Brake, Manchester
	Grieve John, & Co., Motherwell, Scotland	56	Grice, Birmingham
	Griffin Charles, & Co., Ltd., Breter St., Strand, W.C.	Gerrard 3634	Grieve, Motherwell
1 4	Griplock Washer, Ltd., 6A, Tudor St., E.C. 4	City 989	Expianatus, London
	Griscom-Russell Co., West St., New York, U.S.A.	—	Emirship, London
	Grover & Co., Ltd., Carpenter's Rd., Stratford, B.	Broadway 2446	Grispea, New York
	Guest & Chrimes, Rotherham	Rotherham 205	Adopted, Strat., London
	1 Gunther W., & Sons, Central Works, Oldham	317	Guest, Rotherham
	1 Guthrie & Co., St. James's Chambers, Accrington	Accrington 2491	Gunther, Oldham
1 4 5 16 33	Gwynnes Engineering Co., Ltd., Hammersmith Ironworks, W.	Hammersmith 1910	Quartz, Accrington
			Gwynne, London
4	Hadfields Limited, Hecla Works, Sheffield	Central 750	Hadfield, Sheffield
	Halden J., & Co., Ltd., 8, Albert Square, Manchester	Heaton Moor 199	Halden, Manchester
1 27	Hale Thos. L., Ltd., Dudley Port, Tipton, Staffs.	Tipton 73	Hale, Tipton
16	Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham	Halesowen 81	Steel, Halesowen
	Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., Westminster, S.W.	Victoria 6693	Inspect, London
	2 Hall J. & E., Ltd., 10, St. Swithin's Lane, B.C.	(Photo. Dept.) 8	
1 2	Hall J. & E., Ltd., Dartford, Kent	Bank 845 & 846	Hallford, London
1 2 3	Hall J. P., & Co., Ltd., Blackriding Ironworks, Werneth, Oldham	Dartford 201	Hallford, Dartford
	Hall J. P., & Sons, Ltd., Peterborough	300	Dynamo, Oldham
	1 4 Ham, Baker & Co., Ltd., Langley Green, Birmingham	0159	Hall, Engineers, Peterborough
	1 Hampton & Beebee, Ltd., Wednesbury, South Staffs	Oldbury 87	Penstock, Langley, Worcs.
		Wednesbury 80	Washers, Wednesbury

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16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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Hampton & Dean, Clifton Works, Wednesbury ..	Darlaston 39	Busiris, Led., London
1 Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W.	Victoria 6374	Incombust, Sowest, London
1 6 Hands John, & Sons, Ltd., Cardigan Works, Birmingham	Central 3232	Machinery, Birmingham
Hannan & Buchanan, 75, Robertson St., Glasgow ..	1899	—
Hardy & Padmore, Ltd., Worcester Foundry, Worcester	[Worcester 160	Quality, Worcester
1 4 27 Harper A., Sons & Bean, Ltd., Dudley, Worcestershire, Eng.	Dudley 2469	Waddams, Dudley
1 2 4 Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham	Midland 2473 & 2474	Harris, Birmingham
1 Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.	Victoria 4876	Windtight, London
1 Harris Patent Feed-Water Filter (1910), Ltd., 84, Grainger Street West, Newcastle-on-Tyne	Central 3220	Windtight, Newcastle-on-Tyne
1 Hart Thomas, Ltd., Blackburn, England	Blackburn 5010	Hart, Blackburn
1 Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.	[Halifax 1838-9	Boilers, Halifax
Hartnell Wilson, & Co., Ltd., Volt Wks., Kirkstall Rd., Leeds	2635-0	Hartnell, Leeds
4 Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow	{ X 345 1702-3	Maconie, Glasgow
Harvey G. A. & Co., (London), Ltd., Greenwich Metal Works, Woolwich Rd., S.E.	{ Greenwich 20 Five Lines	Cheaper, Char., London
Harvey G. A., Ltd., Govan, Glasgow .. .. .	.. Govan 72	Gandah, Glasgow
1 Haslam Foundry & Engineering Co., Ltd., Derby	778	Zero, Derby
Hawkins W. T., & Co., Chapel Hill, Huddersfield ..	Hudds. 993	Hawkins & Co., Huddersfield
Hawthorn R. & W., Leslie & Co., Ltd., Newcastle-on-Tyne	[Central 3831	Locomotive, Newcastle
16 Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C.4 ..	City 9636	Tylerox, Cent., London
4 Head, Wrightson & Co., Ltd., Teesdale Ironworks, Thornaby-on-Tees	587	Teesdale, Stockton-on-Tees
Heap Joshua, & Co., Ltd., Ashton-under-Lyne	Ashton 406	Heap, Limited, Ashton-under-Lyne
1 6 Heath & Co., Ltd., New Eltham, S.E.9	Lee Green 301 & 302	Polaris, London
1 Heath Robert, & Low Moor, Ltd., Bradford, Yorkshire	Lowmoor 160	Ironworks, Lowmoor, Yorkshire
Heavy Stampings, Ltd., Middlesbrough	291	Stampings, Middlesbrough
1 5 Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester	[Cent. 6260	Spherical, Newton Heath
1 16 Heenan & Froude, Ltd., Worcester, England	Worcester 391	Heenan, Worcester
1 5 Heenan & Froude, Ltd., 4, Chapel Walks, Manchester ..	City 5187	Heenan, Manchester
1 2 4 Henderson & Glass, Liverpool	Central 443 & 7495	Vulcan, Liverpool
1 3 4 Henderson John M., & Co., King's Works, Aberdeen, Scotland	Central 3162	Cranes, Aberdeen
Hendry James, Laminated Leather Works, Bridge-ton, Glasgow	{ Bridgeton 1747 Three Lines	Laminated, Glasgow
1 4 6 Herbert Alfred, Ltd., Coventry	860 Six Lines	Lathe, Coventry
1 Heywood S. H., & Co., Ltd., Reddish	Heaton Moor 48	Cranes, Reddish
1 2 4 16 Hick, Hargreaves & Co., Ltd., Soho Works, Bolton ..	Bolton 1373-4	Hick, Bolton
Higginbottom & Manneck, Ltd., West Gorton, Manchester	Central 1577	Crown, Gortonbrook
1 27 Higgs Bros., Sand Pits, Birmingham	Central 944	Higbro, Birmingham
Hill & Co. (Engineers), Ltd., 72-74, Victoria St., S.W.1	Victoria 8234	Whillorie, Sowest, London
1 Hill, W. W., Son & Wallace, Ltd., Broughton, Manchester	Central 1842	Polish, Manchester
1 4 Hindley, E. S., & Sons, 11, Queen Victoria St., B.C. ..	City 9604	Steamport, London
1 4 16 33 Hingley N., & Sons, Ltd., Netherton Ironworks, Dudley	Dudley 2435	Hingley, Dudley
1 2 3 5 Hobbell, Way & Co., 124-5, St. John's Hse., Minorities, B.	Avenue 3810	Hobnalls, London
1 4 16 Hoffmann Manufacturing Co., Ltd., Chelmsford, Essex	[151 Two Lines	Hoffmann, Chelmsford
1 4 Holbrook & Sons, 44, Martin St., Stratford, E.15 ..	Broadway 2451	Lathookol, Strat., London
Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire Bilston 11	Holcroft's, Bilston
1 Holding John & Co., Ltd., Sheffield	Central 268 & 272	Holding, Sheffield

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Hollingdrake H. & Son, Ltd., Princes St., Stockport	608	Hollingdrake, Stockport
1 Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham	.. ..	East 160	Plungers, Birmingham
1 4 16 Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne	.. ..	Central 809	Holmes, Newcastle-on-Tyne
1 4 33 Holophane, Ltd., 12, Carteret St., Queen Anne's Gate, S.W.1	.. ..	Victoria 2491	Holophane, Vic. London
Holst K., & Co., 1, Victoria St., S.W. 1	.. ..	Victoria 4234	Ferrolst, Vic., London
1 16 Holt & Willetts, Lion Works, Cradley Heath	.. ..	.. Cradley 12	Holt, Willetts, Cradley Heath
Hooper & Weyman, Pilgrim House, Newcastle-on-Tyne	.. ..	Central 1425	Entrophy, Newcastle-on-Tyne
1 6 16 27 Hope Henry & Sons, Ltd., Smethwick, Birmingham	.. ..	Smethwick 320	Conservatory, Birmingham
3 4 16 Hopkinson J., & Co., Ltd., Huddersfield	.. ..	Huddersfield 1269	Hopkinson, Huddersfield
Hordern & Mason, St. Mary's, Birmingham	.. ..	Central 3527	Hordern, Vesey St., Birmingham
Horne Engineering Co., 35, Pitt St., Glasgow	.. ..	Central 1204	Thertrap, Glasgow
Horseley Bridge & Engineering Co., Ltd., Tipton, Tipton shire	.. ..	Stafford-Tipton 107 & 108	Horseley, Tipton
1 House F., & Co., 68, Falkner St., Liverpool	.. ..	Royal 2408	—
1 3 Houston J. W., & Co., Partick Cross, Glasgow	.. ..	Western 2897	Shiplumb, Glasgow
1 4 Howard Pneumatic Engineering Co., Ltd., Bastbourne	.. ..	.. 1179	Inventions, Eastbourne
Howden James, & Co., Ltd., Scotland St., Glasgow	.. ..	South 2070-1-2 } Kinning Park 195 }	Howden, Glasgow
1 33 Howden Overseas Trading Co., Ltd., 105, St. Vincent St., Glasgow	.. ..	Central 2858	Hoverstrad, Glasgow
1 2 3 16 Howell & Co., Ltd., Brook Steel Works, Sheffield	.. ..	.. .. 48	Howell, Sheffield
Howell, W. R. & Co., 42, Theobalds Rd., W.C.1	.. ..	Holborn 6777	—
"H.-R." Gear Syndicate, 168, Regent St., W.	.. ..	Regent 2628	—
Hudson Thomas, Ltd., Sheepfold Wks., Coatbridge, N.B.	.. ..	[Coatbridge 58	Hudson, Coatbridge
2 Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds	.. ..	Leeds 20993	Loco, Leeds
Hughes C. Lockett, Buchanan Buildings, 24, Holborn, E.C.1	.. ..	Holborn 6259	—
Hughes & Lancaster, Liverpool	.. ..	.. 2034	Diagram, Liverpool
Hughes & Lancaster, 16, Victoria St., S.W.	.. ..	Victoria 4772	Voldance, London
Hughes W. R., 94, Market St., Manchester	.. ..	.. —	—
Hull General Pattern Making Works, 58, Strawberry St., Drypool, Hull	.. ..	Central 107Y	—
Humber Graving Dock & Engineering Co., Ltd., King's Dock, Immingham	.. ..	Immingham 77	Repairs, Immingham Dock Station
Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.	.. ..	Victoria 608	Epistolary, Vic., London
1 Hunslet Engine Co., Ltd., Leeds	.. ..	Leeds 20877	Engine, Leeds
1 4 Hunt Hedley S., & Co., 5, Farringdon Rd., E.C.1	.. ..	.. City 5298	Tapsandies, London
Hunt Thomas, & Sons, Bridge Rd. West, Battersea, S.W.11	.. ..	Battersea 261	Linking, Battsquare, London
1 4 16 33 Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell	.. ..	.. 258	Nelson, Motherwell
1 4 16 Hyatt, Ltd., 56, Victoria St., S.W.1	.. ..	Victoria 3521	Hyrodilin, Sowest, London
Hydraulic Gears, Ltd., Beavor Lane, Hammersmith, W. 6	.. ..	Hammersmith 1933	Hygearlin, Phone, London
4 Igranik Electric Co., Ltd., 147, Queen Victoria St., E.C.	.. ..	Central 7131	Igranik, London
Incandescent Heat Co., Ltd., British Mills, Smethwick, Birmingham	.. ..	.. Smethwick 276	Repeat, Birmingham
1 2 4 Ingersoll-Rand Co., Ltd., 165, Queen Victoria St., E.C.	.. ..	City 3832	Ingersoll, London
1 27 Integral Oxygen Co., Ltd., 38, Victoria St., S.W.1	.. ..	Victoria 2543	Centranos, Vic., London
1 4 16 27 International General Electric Co., Inc., Schenectady, New York U.S.A.	.. ..	.. —	Ingenetric, New York
Ironite Co., Ltd., Old Queen St., Westminster, S.W. 1	Victoria 5618	Thormotvin, Vic., London
1 3 Isler C., & Co., Ltd., Bear Lane, Southwark St., S.E.1	Hop 4462	Isler, London

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1 3 Jock Alexander, & Co., Ltd., Whitegates Engineering Works, Motherwell, Scotland	Motherwell 150	Cranes, Motherwell
1 Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester. City	8630	Jacksons, Manchester
1 16 Jacobs Manufacturing Co., Hartford, Conn., U.S.A.	—	Jacobchuck, Hartford
Jardine J., Ltd., Deering St., Nottingham	3295 & 3296	Jardine, Nottingham
1 4 6 Jeffrey Manufacturing Co., 90, North Fourth St., Columbus, Ohio, U.S.A.	—	Jeffrey, Columbus
1 4 6 Jenkins Bros., Ltd., 6, Great Queen St., W.C.2	Regent 213	Patapoco, London
6 Jenkins R., & Co., Ltd., Rotherham, Eng.	Rotherham 584	Jenkins, Rotherham
1 16 Jenkins, W. J., & Co., Ltd., Beehive Works, Retford, Notts. Retford	443	Jenkins, Retford
Jennings Edward J., West Walls, Newcastle-on-Tyne	Central 4429	Potential, Newcastle-on-Tyne
Jensen & Son, 77, Chancery Lane, W.C.	Holborn 1249	Venture, London
1 2 4 Jessop Wm., & Sons, Ltd., Brightside Works, Sheffield	Central 155	Jessops, Sheffield
1 2 3 4 16 Johnson & Phillips, Ltd., Charlton, S.E. 7	Greenwich 400	June, Charlton, London
1 4 16 33 Johnson Richard, Clapham & Morris, Ltd., Lever St., Manchester	Central 1120	Metallics, Manchester
1 Johnson Wm., & Sons (Leeds), Ltd., Armley, Leeds.	Leeds 26853	Roakley, Armley
1 2 3 4 16 Jones & Colver, Ltd., Sheffield	Private Branch Exchange 4040	Jones, Sheffield
1 16 Jones A. A., & Shipman, Ltd., East Park Rd., Leicester	2191	Chuck, Leicester
Jones & Lamson Machine Co., 5-10, Water Lane, Queen Victoria St., E.C.4	City 732	Turretorum, Cent., London
Joyling E., & Sons, Ltd., Pallion Steel Works, Sunderland	Sunderland 741	Castings, Sunderland
16 Kalamazoo, Ltd., Kalamazoo Works, Northfield, Birmingham	Kings Norton 191	Kalamazet, Birmingham
1 Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.	Holborn 1847	Lockean, London
1 Kaye Jos., & Sons, Ltd., Lock Works, Leeds	21835	Wedge, Leeds
1 4 Kearns H. W., & Co., Ltd., Broadbeath, near Manchester	Altrincham 221	Kearns, Altrincham
Keay E. C. & J., Ltd., Corporation St., Birmingham	Central 430	Keay, Birmingham
1 4 16 37 Keighley Gas & Oil Engine Co., Ltd., Imperial Works, Keighley	Keighley 546	Imperial, Keighley
1 4 Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.	{ Holborn 6194 } { Six Lines }	James Keith, Telow, London
4 Kent George, Ltd., 199, High Holborn, W.C. 1	Museum 4263	Kentobin, Westcent, London
Kenyon Alexander, & Co., Victoria Bridge, Manchester	City 2307	Everything, Manchester
1 Kenyon Wm., & Sons, Ltd., Dukinfield, Manchester	Ashton 494	Kenyon, Dukinfield
Kermodes, Ltd., 35, The Temple, Dale St., Liverpool	Central 2833	Warmth, Liverpool
33 Kilmarnock Engineering Co., Ltd., 10, Coleman St., E.C.2	London Wall 729	Kilbrincock, Ave., London
King B. T., 146A, Queen Victoria St., E.C. 4	Central 683	Geologic, London
Kirby Banks Screw Co., Ltd., Leeds	Central 20104 & 20105	Hexagon, Leeds
Kirk Wheatley, Price & Co., 46, Watling St., E.C.	Bank 5077	Indices, London
Kirk Wheatley Price & Co., Albert Sq., Manchester	Central 3218	Indicator, Manchester
Kirkaldy, John, Ltd., 101, Leadenhall St., E.C. 3	Avenue 1223	Bompactum, Led., London
Kirkstall Forge Ltd., Leeds	Leeds 21591	Forge Kirkstall
1 4 Kiteon Empire Lighting Co., Ltd., 1, Central Buildings, Westminster, S.W.1	Victoria 2701	Vaporific, Vic., London
1 Kloss F., & Sons, Ltd., 20, Copthall Avenue, E.C.2	London Wall 2106	Clarendona, Ave., London
1 5 Knap, Conrad & Co., Ltd., 11, Queen Victoria St., E.C.4	Bank 8186	Conrad, Cannon, London
16 33 Koechring Company, Milwaukee, Wisconsin, U.S.A.	Kilbourne 6280	Koechring, Milwaukee
1 Kvaerner Brug, A/S, Kristiania, Norway	—	Kvaerner, Kristiania
1 33 Kynock Ltd., Lion Works, Witton, Birmingham	East 340	Kynock, Birmingham

Telegraphic Codes in use : 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 5 Moreing's.
6 Private. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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Lake Philip, & Co., 66, Victoria St., Westminster, S.W.1	Victoria 21	Lakeval, Sowest, London
1 3 16 Lancashire Dynamo & Motor Co., Ltd., Trafford Park, Manchester	{ City 7450 Six Lines }	Ironclad, Manchester
1 Lancaster & Tonge, Ltd., Pendleton, near Manchester	Pendleton 734	Pistons, Manchester
6 Lang John, & Sons, Lathe Makers, Johnstone, N.B. . .	12	Lang, Johnstone
1 Laurence, Scott & Co., Ltd., Norwich . . .	1362 & 1363	Gothic, Norwich
1 Lea Recorder Co., Ltd., 28, Deansgate, Manchester . .	City 5040	Recording, Manchester
1 6 Leathers Company (Aldrincham), Limited, Aldrincham, near Manchester	Aldrincham 830	Leathers Company, Aldrincham
Le Bas Edward, & Co., Dock House, Billiter St., E.C. . .	Avenue 5463	Gramercy, London
4 Lee Arthur, & Sons, Ltd., Sheffield	Central 4540	Crown, Sheffield
1 27 Leeds Electrical Construction Co., Ltd., Charnmouth St., Leeds	Leeds 27156	Leefur, Leeds
1 27 Leeds Engineering & Hydraulic Co., Ltd., Rodley, Nr. Leeds	Staningley 169	Pumps, Rodley
1 2 3 4 16 Leeds Forge Co., Ltd., Leeds	Five Lines 20621	Vulpec, Leeds
1 2 6 Lees T. & R., Ltd., Hollinwood, near Manchester . .	Fallsworth 16	Lees, Hollinwood
Leroy F., & Co., 20, Gray St., Commercial Rd., E. . .	Central 5055	Efficiency, London
Leyland Motors, Ltd., Leyland, Lancashire	Leyland 37	Leymotors, Leyland
1 Library Press, Ltd., 1, Portugal St. Buildings, Portugal St., W.C. 2	Holborn 1387	—
1 2 4 16 Lidgerwood, Ltd., Friars House, New Broad St., E.C. . .	London Wall 7422	Lidgerwood, London
1 4 16 Lillleshall Co., Ltd., Oakengates, Shropshire	Oakengates 28	Lillleshall, Oakengate
1 Lindsay R. B., & Co., 38, Maik St., Plantation, Glasgow . .	Ibros 303	Conical, Glasgow
Liverpool Refrigeration Co., Ltd., Colonial House, Liverpool . .	Central 6897	Polar, Liverpool
Llewellyn's Machine Co., Bristol, England	Bristol 3091	Llewellyn's, Bristol
1 Lloyd F. H., & Co., Ltd., James Bridge Steel Works, nr. Wednesbury	Darlaston 44	Steel, Darlaston
1 4 Lloyd, Richard, & Co., Galton Works, Steelhouse Lane, Birmingham	Central 7251-7254	Cogs, Birmingham
Lobnitz & Co., Ltd., Renfrew, Scotland	Renfrew 4	Lobnitz, Renfrew
Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield . .	Central 1376	Piston, Sheffield
Lockwood Crosby, & Son, 7, Stationer's Hall Court, E.C. . .	Central 4421	Crosby Lockwood, Cent, London
Lodge Bros. & Co., Rugby	Rugby 276	Igniter, Rugby
2 3 London Electric Firm, Brighton Rd., Croydon	Purley 68	Electric, Croydon
Longmans, Green & Co., 39, Paternoster Row, E.C. . .	City 3670	Longmans, Cent., London
London Brothers, Ltd., 39, West Campbell St., Glasgow	{ Argyle 553 Central 7553 }	Achilles, Glasgow
1 4 Low Engineering Co., Ltd., 92A, High St., Kensington, W.8	Park 3442	Engiloma, Phone, London
Lunken Company, Ltd., 35, Great Dover St., S.E.	Hop 4487	Lunken, London
Luntis, Ltd., Halford St., Leicester	Central 3779	Tools, Leicester
1 2 4 25 Lysaght John, Ltd., St. Vincent Ironworks, Bristol . .	5720	Lysaght, Bristol
1 Macfarlane Engineering Co., Ltd., Netherlee Rd., Cathcart	Langside 555	Power, Cathcart
1 3 Machinery & Steels, Ltd., 64, Great Eastern St., E.C.2.	London Wall 5632	Achinel, Bethroad, London
Machinery Publishing Co., Ltd., 51, Chancery Lane, W.C.2	Holborn 1718	—
MacLaren Brothers, Ltd., 24, St. Vincent Place, Glasgow	Central 5066	—
4 MacLellan P. & W., Ltd., 129, Trongate, Glasgow	Bell 200	MacLellan, Glasgow

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16 Western Union. 25 Premier. 27 Marooni Wireless. 33 Bentley's.

CODES, AND TELEPHONE NUMBERS.

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TELEGRAPHIC ADDRESS.

4	MacLellan P. & W. Ltd., 10, Princes St., Westminster, S.W.1	Victoria 6024	MacLellan, London
1	Macmillan & Co., Ltd. St. Martin's St., W.C. 2	Gerrard 8830	Publish, Westrand, London
2	MacNab John (Machinery) Ltd., Mary St., Hyde	Hyde 78	Lathe, Hyde
4	Macres A. R., 34, Rue de Londres, Paris (9 E)	Louvre 42-96	Zercames, Paris
33	McClintic-Marshall Products Co., 50, Church St., New York, U.S.A.	—	Macmarsh, New York
1	McGowan, W.H. & Co., Hurst St., Birmingham	Midland 1816	Logic, Birmingham
	McGraw-Hill Publishing Co., Ltd., 6 & 8, Bouverie St., E.C.4	Holborn 5158	Backlash, Fleet, London
11	McGregor, Gow & Holland, Ltd., 1 & 4, Fenchurch Avenue, E.C.3	Avenue 5304	Eastwardly, London
1	McKechnie Brothers, Ltd., Rotton Park St., Birmingham	Edgbaston 381	McKechnie, Birmingham
1 2 3	McKie & Baxter, Copland Works, Govan, Glasgow	Govan 35	Calidad, Glasgow
1	McNell C., Ltd., Kinning Park Hydraulic Forge, Glasgow	[Ibros 830-3	Macnell, Glasgow
	McRobie John, & Sons, 94, Elliott St., Glasgow	Central 1241	McRobie, Glasgow
4	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.	City 6596	Magnolier, London
1	Maiden & Co., Ltd., Hyde, Cheshire	Hyde 29	Maiden, Hyde
1	Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow	South 508	Rheostat, Glasgow
	Manchester Steam Users' Association, 9, Mount St., Manchester	[Central 4880	Steam Users, Manchester
1 2 4	Manlove, Elliott & Co., Ltd., Nottingham	— 274	Manloves, Nottingham
1 2 4	Manlove, Elliott & Co., Ltd., 41 & 42, Parliament St., S.W.	[Gerrard 5405	Manloves, London
	Manning, Maxwell & Moore, Inc., New York	—	Cognition, New York
1	Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds	Leeds 24516	Manning, Leeds
4 16	Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., E.C. 1	City 1494	Markt, Smith, London
16 27 33	Marsden Charles, & Sons, Ltd., 32, Holly St., Sheffield	Central 243	Mars, Sheffield
1 2 6	Marsden H. R., Ltd., Soho Foundry, Leeds	Leeds 26710	Marsden, Leeds
	Marsden S. & Son, Ltd., London Rd., Manchester	Central 2031	Bolts, Manchester
	Marshall, Fleming & Co., Ltd., Motherwell	— 50	Deilburn, Motherwell
2346 16	Marshall, Sons & Co., Ltd., Gainsborough	Gainsborough 123	Marshall, Gainsborough
2346 16	Marshall, Sons & Co., Ltd., 3, London Wall Buildings, London Wall, E.C. 2	London Wall 1667	Engine, Ave., London
	Mason Regulator Co., Boston, Mass., U.S.A.	—	Masonica, Boston, U.S.A.
1 4 12	Massey B. & S., Ltd., Openshaw, Manchester	City 8670	Massey, Openshaw
1	Matterson, Ltd., Shawclough, Rochdale	—	Matterson, Shawclough, Rochdale
	Mayer & Cousins, Ltd., 47, Broad St., Mile End, Glasgow	[Bridgeton 960	Prodigious, Glasgow
4	Maxted & Knott, Ltd., Burnett Avenue, Hull	Central 4300	Energy, Hull
1 2	Maxwell & Fage, 49, Sefton St., Liverpool	Royal 1817	Galvanizer, Liverpool
	Maycock Alex. W., Chapel St., Stalybridge	—	Machinery, Chapel St., Stalybridge
1	Mechams Limited, Scotstoun Ironworks, Glasgow	Western 2380	Nautical, Glasgow
1 4	Meldrums, Ltd., Timperley, near Manchester	Altrincham 181	Meldrum, Altrincham
1	Merryweather & Sons, Ltd., 63, Long Acre, W.C.	Gerrard 1795	Merryweather, London
	Metallic Manufacturing Co., Ltd., Ardrossan	Ardrossan 91	Jointing, Ardrossan
1	Metallic Valve Co., Colonial House, Water St., Liverpool	[Central 5818	Valve, Liverpool
4	Metropolitan Vickers Electrical Co., Ltd., Trafford Park, Manchester	Trafford Park 190-7	Metrevick, Manchester
16 33	Michell Bearings, Ltd., 3, Central Buildings, S.W.1	Victoria 7676	Michbearo, Vic., London
1	Middleton Bros., Westover Works, Pudsey, Leeds	Stanningley, Leeds, 275	Cranes, Pudsey
1 4 27	Middleton Robt., & Co., Sheepscar Foundry, Leeds	— 24408	Hydraulic, Leeds
3 4	Middleton Robt., & Co., 22, Martin's Lane, Cannon St., E.C.	Bank 5438	Intensifier, London

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11 Scott's. 12 Unicode. 16 Western Union. 27 Marconi Wireless. 33 Bentley's.

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1 4 Midland Railway Carriage & Wagon Co., Ltd., Midland Works, Birmingham	East 463	Wagon, Birmingham
Mild Steel Castings, Ltd., Tyseley, Birmingham [Acocks Green 131		Mildsteel, Hay Mills
1 Mills William, Ltd., Grove St., Birmingham	Smethwick 313	Wilmil, Birmingham
1 4 Millwall Engineering Co. Ltd., 21, Pantons St., S.W. [Gerrard 1337 & 1338		Ironware, Piecey, London
4 Mirreles, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport (Stockport 615		Economy, Hazel Grove
1 2 3 4 16 Mirreles Watson Co., Ltd., Scotland St., Glasgow { South Side 1780 to 1782 } Kinning Park 69 }		Mirreles, Glasgow
Mitchell Conveyor & Transporter Co., Ltd., Atlantic House, 45, Holborn Viaduct, E.C.1	Holborn 296	Micontrace, Cent., London
1 6 Moorlands Engineering Co., Ltd., Leek, Staffs.	Leek 101	Tools, Leek
1 6 16 27 Morden, S. H. & Co., Ltd., 18, Dartmouth St., S.W. 1	Victoria 3921	Dominating, Vic., London
1 3 4 16 Morris, Herbert, Ltd., Loughborough, England .. Loughborough 123		Cosmorris, Loughborough
Morton & Weaver, Cox St., Coventry	953	Precision, Coventry
Motherwell Bridge Co., Ltd., Motherwell, N.B.	40	Bridge, Motherwell
2 Motor Rail & Tram Car Co., Simplex Works, Bedford .. Bedford 110		Motral, Bedford
1 Mountford Fredk., Ltd., Old Cross St., Birmingham	Central 6061	Promo, Birmingham
4 Muir Wm., & Co., Ltd., Sherbourne St., Manchester	City 529	Ertannia, Manchester
1 Mumford A. G., Ltd., Culver St. Engineering Works, Colchester	National 129	Mumford, Colchester
1 Muntz P. H. & Co., Ltd., Alexandra Works, West Bromwich	235	Muntz, Westbromwich
1 Murray, McVane & Co., Ltd., Mavisbank Quay, Glasgow	Ibex 890	Metallic, Glasgow
Musgrave Bros., Crown Point Foundry, Leeds	26252	Tools, Leeds
1 3 4 Musgrave & Co., Ltd., St. Anne's Ironworks, Belfast	4161	Centigrad, Belfast
1 Napier Bros. Ltd., 130, Hyde Park St., Glasgow, W.	Central 6714	Windlass, Glasgow
National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage, Manchester	Central 2624	National, Manchester
1 3 3 16 National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester	425	National, Ashton-under-Lyne
1 16 33 Nocol Industrial Collieries, Ltd., 62, London Wall, E.C.2	London Wall 6886	Necoloid, Ave., London
4 27 Negretti & Zambra, 38, Holborn Viaduct, E.C.	Holborn 583	Negretti, London
Netherlands Steel Works, Utrecht, Holland	—	Staalfabrieken, Holland
1 Newalls Insulation Co., Ltd., 31, Moseley St., Newcastle-on-Tyne	Central 3435 & 3436	Newalls, Newcastle-on-Tyne
1 6 Newbold Walter & Co., Ltd., 11 to 13, Huggin Lane, Queen Victoria St., E.C.4	Central 6061	Newbold, London
Newton, Bean & Mitchell, Dudley Hill, Bradford	Dudley Hill 125	Adroit, Dudley Hill
Newton, Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield	Central 2200	Newton, Sheffield
16 Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), Northallerton, Yorks	Gateshead 466	Nichols, Engineers, Gateshead
2 4 6 Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A.	—	Nilesco, New York
Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne	Gateshead 23	Lathes, Felling
Normand Augustin, 67, Rue du Perrey, Le Havre, France	—	—
1 3 Norris, Henty & Gardners, Ltd., Patricroft, Manchester	Eccles 401	Theorem, Patricroft
1 North British Locomotive Co., Ltd., Administration Building, 110, Flemington St., Springburn, Glasgow	Bell 1120	Loco, Glasgow
1 4 North British Rubber Co., Ltd., 257-259, Oxford St., W. 1	Museum 5460	Clinchex, Phone, London
4 North-Eastern Marine Engineering Co., Ltd., Northumberland Works, Wallsend-on-Tyne	Wallsend 126 & 127	News, Wallsend

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16 Western Union. 27 Marconi Wireless. 33 Bontley's.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
North Eastern Railway Co., York	York 345	Chief Goods, Railway, York Newcrane
4 16 Northern Engineering Works, Detroit, Mich., U.S.A. ..	—	
1 Northern Rail Bearings, Ltd., 115, Great Portland St., W.1 Langham 1876	Windsor 163	Enorbalber, London Newcrane, Walkerville
4 16 Northern Crane Works, Ltd., Walkerville, Ontario, Canada Northgate Iron Works Co., Klondyke, Bury St. Edmunds, Suffolk	Bury St. Edmunds 3	Castings, Bury St. Edmunds Ironheads, London
1 4 16 Notcutt Walker P., Ltd., 8, White St., Moorfields, E.C. London Wall 5220		
Osakey John, & Sons, Ltd., Westminster Bridge Rd., S.R. Hop 2365 1 2 4 16 Olwell Supply Co., Dashwood House, New Broad St., E.C. London Wall 4535		Osakey, London
2 4 5 24 Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield [Central 4544 Owen & Crisp, 64, Basinghall St., E.C.2	London Wall 5666	Wellocoy, London Osborn, Sheffield
Oxy-Acetylene Welding Co., Ltd., 169, Finnieston St., Glasgow Charing 1187		Fins, Glasgow
Pabneys, Ltd., 72, Jamaica St., Glasgow { Central 5697-9 8574		Outfitter, Glasgow
Parker Foundry Co., Ltd., Derby	366	Parker, Derby
1 Parkinson J., & Son, Shipley, Yorkshire	Shipley 568	Temple, Shipley
1 Parsons C. A., & Co., Ltd., Heaton Works, Newcastle	Central 3490	Turbo, Newcastle-on-Tyne
Parsons C. A., & Co., Ltd., 56, Victoria St., S.W. ..	Victoria 4645	Silently, Vic, London
Partington Steel & Iron Co., Ltd., Irlam, Manchester	Urmston 73	Steel, Cadishead
Patent Die-Castings Co., Ltd., 64, Strode Rd., N.W.10	Willessden 733	Dykasyn, Willroad, London
1 6 Patent Lightning Crushers Co., Ltd., 14A, Rosebery Av., Gray's Inn Rd., E.C.2	City 4636	Agenciader (10), London
1 Paterson Engineering Co., Ltd., 21, Windsor House, Kingsway, W.C.2	Gerrard 6560	Cumulative, Phone, London
1 Paterson Hughes Engineering Co., Ltd., 36, Charlotte Lane, Glasgow	Bell 1162	Zenth, Glasgow
Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton ..	5	Paul, Dumbarton
Pearce F., & Co., Ltd., West Gorton, Manchester	Central 2389	Pumps, Manchester
Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol	[Fishponds 6	Peckett, Bristol
1 Pegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow	Central 3240	Gunmetal, Glasgow
1 3 Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow	Bridgeton 2544	Penman, Glasgow
1 Penney & Porter, (Engineers) Ltd., City Iron & Steel Works, Lincoln	211	Screens, Lincoln
Perman & Co., Ltd. 82 & 83, Fenchurch St., E.C. 3	Avenue 5236	Apermaco, Phone, London
Peters, Ltd., Nautlius Works, Yeovil	Yeovil 21	Peters, Yeovil
1 Phoenix Electrical Co., Ltd., 32, Broomielaw, Glasgow	Central 9501	Solenoid, Glasgow
1 6 Photographica, Ltd., 62, Cheapside, E.C.2	City 7410	Photansia, Cent., London
Pickering R. Y., & Co., Ltd., Wishaw, near Glasgow ..	Airdrie 2	Pickering, Wishaw
Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W. ..	[Victoria 5371	Wagonload, London
1 4 6 Pickles John & Son, (Engineers) Ltd., Hebden Bridge, Yorks ..	12	Pickles, Engineers, Hebden Bridge
1 2 16 Piggott Thos., & Co., Ltd., Birmingham	Central 3923	Atlas, Cent., Birmingham
1 2 16 Piggott Thos., & Co., 63, Queen Victoria St., E.C. ..	City 8753	Intersection, London
Pitman Sir Isaac, & Sons, Parker St., Kingsway, W.C.2	Gerrard 856	Contemporary, Cent., London

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16 Western Union. 24 Broomhall's.

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Platt Samuel, Ltd., Wednesbury	60	Platt, Wednesbury
1 Player W. & J., Birmingham	1402	Method, Birmingham
Pleck Foundry Co., Ltd., Darlaston Rd., Walsall ..	Walsall 492	Foundry, Walsall
1 Plenty & Son, Ltd., Newbury, Berkshire	Newbury 7	Plenty, Newbury
1 2 4 Pollock & Macnab, Ltd., Bredbury, Stockport ..	613	Macnab, Woodley
6 Pollock Macnab & Highgate, Shettleston, Glasgow ..	Shettleston 143	Highgate, Shettleston
1 Pontifer & Wood, Ltd., Union Foundry, Derby ..	50	Zero, Derby
1 Pontifer & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C.	London Wall 863	Pontef, London
1 Pope's Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W. 10	Willesden 1170	Planetary, Phone, London
1 33 Porter H. K., Company, Pittsburgh, Pa., U.S.A. ..	Gramercy 4705	Stapely, New York
1 16 Positive Lock Washer Co., 118-122, James Watt St., Glasgow ..	Central 2983	Keystone, Glasgow
Pott, Cassels & Williamson, Motherwell, near Glasgow ..	Motherwell 23	Pott, Motherwell
1 3 6 16 Power Gas Corporation, Ltd., Stockton-on-Tees ..	501	Tetratomic, Stockton-on-Tees
1 6 27 Power Plant Co., Ltd., West Drayton, Middlesex ..	Viewsley 22	Roe, West Drayton
Pratchitt Brothers, Denton Iron Works, Carlisle	344	Pratchitts, Engineers, Carlisle
1 Precision Ganges, Ltd., Wrentham St., Birmingham ..	Midland 1016	Rekrap, Birmingham
1 4 Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, Nr. Guildford, Surrey	Shalford 27	Precooler, Shalford
1 4 Premier Gas Engine Co., Ltd., Sandiacre, Nottingham ..	Sandiacre 39	Premier, Sandiacre
1 Priestman Bros., Ltd., Holderness Foundry, Hull	Central 5228	Priestman, Hull
1 Priestman Bros., Ltd., 28, Victoria St., S.W. 1	Victoria 6171	Priestman, London
1 Princeps & Co., Sheffield	2315	Princeps, Sheffield
1 Proctor James, Ltd., Burnley, Lancashire	202	Proctor, Burnley
1 33 Progressive Engineering Co., Ltd., Ayleston Rd., Leicester ..	Central 408	Emergency, Leicester
1 6 16 Pullen F. A. & Co., Harleyford Rd., Vauxhall, S.E. 11 ..	Brixton, 571	Pullen, Phone, London
1 2 3 4 5 Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W. ..	[Victoria 4543]	Pulsometer, London
1 2 3 4 5 Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, Berks.	583	Pulsometer, Reading
1 2 3 4 5 Pulsometer Engineering Co., Ltd., 15, King St., Leeds ..	26143	Pulsometer, Leeds
1 2 3 4 5 Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool ..	Bank 4184	Pulsometer, Liverpool
1 2 3 4 5 Pulsometer Engineering Co., Ltd., 160, St. Vincent St., Glasgow ..	Central 1426	Pulsometer, Glasgow
1 2 3 4 5 Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester	City 45	Pulsometer, Manchester
1 Ramshay & Marshall, Ltd., Birmingham	Central 7531	Ramshay, Birmingham
2 4 Ransome A. & Co., Ltd., 63, Queen Victoria St., E.C. ..	City 8779	Ransome, Cent. London
4 Ransome A. & Co., Ltd., Stanley Works, Newark-on-Trent ..	119	Ransome, Newark-on-Trent
Ransomes Machinery Co. (1920), Ltd., 14 & 16, Grosvenor Gardens, S.W. 1	Victoria 8060	Ransomaco, Sowest, London
1 2 4 Ransome & Marles Bearing Co., Ltd., Newark-on-Trent ..	Newark 170	Bearings, Newark
1 27 33 Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich ..	Ipswich 904	Waterside, Ipswich
1 2 4 6 Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich ..	896	Ransomes, Ipswich
1 2 4 6 Ransomes, Sims & Jefferies, Ltd., 46, Queen Victoria St., E.C. 4 ..	[Central 10017]	Anglia, London
Rapid Magnetising Machine Co., Ltd., 52, Lombard St., Birmingham ..	837	Borings, Birmingham

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Raworth John E., & Mess, 75, Victoria St., S.W. 1	Victoria	3025	Raworth, Vic., London
1 3 Reader B., & Sons, Phoenix Works, Cremorne St., Nottingham	Nottingham	414	Readers, Nottingham
1 6 27 Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich	Ipswich	325	Reavell, Ipswich
1 2 Reay Gearworks, Ltd., Gateshead-on-Tyne	Gateshead	520	Gears, Gateshead
Reddaway F., & Co., Ltd., Pendleton, Manchester	City	5220	Anchorage, Manchester
Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.	Gerrard	5878	Firen, London
Reddaway F., & Co., Ltd., 50 and 51, Lime St., E.C.	Avenue	2856	Reddaway, London
1 4 27 Redman C., & Sons, Kingston, Halifax	Halifax	308	Planers, Halifax
1 27 Rodpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh	Edinburgh	Central 1256	Rodpath, Edinburgh
2 3 16 Ross Rotarbo Manufacturing Company, Ltd., Wolverhampton, Eng.	Wolverhampton	900	Hydroturbo, Wolverhampton
Roid Gear Co., Linwood, near Paisley	Johnstone	4 X	Roid, Linwood
1 16 Royrelle A. & Co., Ltd., Hebburn-on-Tyne	Gateshead	279	Royrelle, Hebburn
4 Rhodes Manufacturing Co., Hartford, Conn., U.S.A.	Charter	8429	Rhodes, Hartford
1 27 Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds	Leeds	2635	Frens, Leeds
Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury	Wednesbury	98	Richards, Wednesbury
Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham	Birmingham	East 800	Westminster, Birmingham
1 16 Richardson, Westgarth & Co., Ltd., Engine Works, Hartlepool	Hartlepool	709	Richardsons, Hartlepool
Richardson Gas Store & Motor Co., Ltd., Academy St., Warrington	Warrington	415	Gastoves, Warrington
16 Riddel John H., Ltd., 40, St. Enoch Square, Glasgow	Glasgow	Central 9722	Ridel, Glasgow
1 Ritchie-Atlas Engineering Co., Atlas Works, Temple, Glasgow	Glasgow	Western 2395	Appendix, Glasgow
Robey & Co., Ltd., Lincoln	Lincoln	3	Robey, Lincoln
1 2 4 Robinson T., & Son, Ltd., Rochdale	Rochdale	467	Robinson, Rochdale
1 Robson John (Shipley), Ltd., Shipley, Yorks.	Shipley	96	Robson, Shipley
1 2 Roe & Harrison, Ltd., Derby	Derby	1054	Globe, Derby
3 Rose, Downs & Thompson, Ltd., Old Foundry, Hull	Hull	Central 2629	Roe, Hull
1 2 Ross & Duncan, Whitefield Works, Glasgow	Glasgow	Govan 304	Whitefield, Glasgow
Romer & Russell, Ltd., Queen's Wharf, Hammersmith	Hammersmith	31	Leserns, Hammer, London
1 4 Rowan David, & Co., Ltd., 231, Elliot St., Glasgow	Glasgow	Central 4340	Rowan, Glasgow
1 4 6 Rowman Brew & Clydesdale, Ltd., 225, Upper Thames St., E.C.	London	Central 1070	Rowman, Cent., London
4 16 27 Royce Ltd., Trafford Park, Manchester	Trafford Park	690, 691 & 692	Switch, Manchester
1 3 4 Royles, Limited, Irlam, near Manchester	Manchester	6718	Elyer, Gadshead
Rudge-Whitworth, Ltd., Sparkhill, Birmingham	Acocks Green	191	Sphere, Birmingham
Russell G., & Co., Ltd., Motherwell, N.B.	Motherwell	4	Russell, Motherwell
1 2 Russell John, & Co., Ltd., Alma Tube Works, Walsall	Walsall	34	Alma, Walsall
1 2 Russell John, & Co., Ltd., New Spring St., Birmingham	Birmingham	Central 1401	Belmont, Birmingham
Russell John G., Clydesdale Nail Works, Wishaw, Scotland	Wishaw	42	Dogpke, Wishaw
Russell S., & Sons, Bath Lane, Leicester	Leicester	3657	Russell's, Ironfounders, Leicester
4 16 20 Ruston & Hornsby, Ltd., Sheaf Ironworks, Lincoln	Lincoln	580-585	Ruston, Lincoln
Rust Preventer Co., Chorlton-on-Medlock, Manchester	Manchester	—	—
1 2 3 6 Ruston & Hornsby, Ltd., Spittlegate Ironworks, Grantham	Grantham	120	Hornsby, Grantham
1 2 3 6 Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4	London	City 7997	Ruston, Cannon, London
4 16 33 Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.	Chicago	Lawndale 1	Ryson, Chicago

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.
18 Western Union. 20 McNeil's. 27 Marconi Wireless. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.

TELEPHONE
NUMBER

TELEGRAPHIC ADDRESS.

	St. George's Engineering Co., Brearley St., Birmingham	.. Central 63	Falons, Birmingham
	St. George's Engineers, Ltd., Hulme Hall Rd., Manchester	Central 5722	Georgie, Manchester
1 16	Salter Geo., & Co., Ltd., West Bromwich, England	W. Bromwich 216	Salters, West Bromwich
	1 Salters, Ltd., Parkstone, Dorset	Canford Cliffs 44	Salters Ltd., Lilliput
	1 Sands Geo., & Son, Ltd., Colwick, Nottingham ..	.. Carlton 84	Sands, Colwick, Nottingham
27	Sanders & Forster, Ltd., Thames Works, Barking	.. East Ham 296	Sanforstead, Barking
1 5 19 20	Sandycroft Limited, Chester .. ..	.. Connahs Quay 3	Sandycroft, Barking
	1 Sankey Joseph, & Sons, Ltd., Wellington, Shropshire	Wellington 06	Sankey, Wellington, Salop
	Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C.4	City 8257	Printeries, Cent., London
	Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr, Scotland .. ..	.. Ayr 106	Stampings, Ayr
2 4 16	Scottish Tube Co., Ltd., 34, Robertson St., Glasgow ..	{ Central 5687 Six Lines	Scotube, Glasgow
1 6	Seagers, Ltd., Dartford .. ..	.. Dartford 248	Seagers, Dartford
1	Selwyn A. H., Ltd., 8, Lawrence Lane, Cheapside, E.C.2	.. City 7703	Aramiddle, Cent., London
	Shanks Thomas, & Co., Union Ironworks, Johnstone, nr. Glasgow	..	Shanks, Johnstone
	Shaw W., & Co., Wellington Cast Steel Foundry, Middlesbro'-on-Tees	106	Wellington, Middlesbro
1 4	Shepard Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.	—	Shephoist
	Shore Instrument & Mfg. Co., Van Wyck Avenue & Carl St., Jamaica, New York, U.S.A. .. ..	.. Chelsea 3252	Shoreinst, New York
	1 Shore Thos., & Sons, Ltd., Etruria, Stoke-on-Trent ..	.. 74	Pumps, Stoke-on-Trent
16 36	Shuster F. B., Co. (The), New Haven, Conn., U.S.A. ..	.. 2460	Adt, Nowhaven, U.S.A.
1 2	Siebo, Gorman & Co., Ltd., Neptune Works, London, S.B.	.. Hop 3401	Siebo, Lamb., London
1 2 3	Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 18.	{ City 6400 Seven Lines	Siemens, Woolwich
4 5 16	1 16 Simon-Carves, Ltd., 20, Mount St., Manchester ..	.. City 8290	Simcar, Manchester
1 11 33	1 11 Simons W., & Co., Ltd., Renfrew, Scotland .. ..	.. 3	Simons, Renfrew
	1 11 Simson W., & Co., Ltd., Gloucester .. ..	.. 57	Simson, Gloucester
	Skefko Ball Bearing Co., Ltd., Skefko Works, Luton ..	.. Luton 418	Skefko, Luton
4 16 33	Skinner Chuck Co., 139, Queen Victoria St., E.C.4 ..	.. Central 1194	Seythea, Cent., London
	1 Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A. ..	.. Park 4519	Sleeper, Worcester, Mass.
	Smedley Bros., Ltd., Belper, Derbyshire .. ..	.. 12	Smedleys, Belper
	Smethwick Stamping Co., Bridge St., Smethwick, Staffs.	.. Smethwick 13	Drofrog, Smethwick
1 4 16 33	1 16 33 Smidth F. L., & Co., Ltd., 20, Essex St., W.C.2 ..	.. Central 2126	Chalkiness, Estrand, London
1 16 27	1 16 27 Smith, Barker & Willson, Ltd., Halifax .. ..	.. Halifax 46	Lathe, Halifax
1 27	1 27 Smith Bros. & Co. (Hyson), Ltd., Hyson Green Works, Nottingham .. ..	.. 1516	Hyson, Nottingham
	Smith Bros & Hill, Ltd., Albert Spring Works, West Bromwich .. ..	.. West Bromwich 125	Spring, West Bromwich
1 4 16 27	1 4 16 27 Smith & Coventry, Ltd., Gresley Ironworks, Manchester	.. City 8160	Gresley, Manchester
	Private Branch Exchange.	..	..
	Smith E. J., & Co., King's Road, Hay Mills, Birmingham	.. Victoria 584	Tysefermo, Birmingham
1 4 27	1 4 27 Smith, H. W., & Co. (1920), Ltd., Central House, Kingsway, W.C.2 .. ..	.. Regent 2368	Virkwres, Westcent., London
	Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston	.. Thrapston 19	Grace, Thrapston
3	3 Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow	.. Douglas 2659	Possil, Glasgow
	1 Smith & Pearson, Ltd., Newcomen Ironworks, Dublin	.. 1490	Pearson, Dublin
1	1 Smith S., & Sons, Ltd., Grand Hotel Buildings, Trafalgar Sq., W.C.1 .. ..	.. Gerrard 2830	Ruspoll, London
	1 Smith Sydney & Sons (Nottingham), Ltd., Nottingham	.. 1537	Smiths, Nottingham
1 2 16	1 2 16 Smith Thos., & Sons (Rodley), Ltd., Steam & Electric Crane Works, Rodley, near Leeds .. ..	.. Stanningley 12 & 18	Smith, Rodley
16	16 Smulders A. F., Schiedam, Rotterdam, Holland .. ..	.. 194	Asmulders, Schiedam

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Leiber's. 5 Moring's.
6 Private. 11 Scott's. 16 Western Union. 19 Universal Mining.
20 McNeill's. 27 Marconi Wireless. 33 Bentley's. 36 Postal.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 4 Société de Produits Métallurgiques, 146, Boulevard Haussmann, à Paris (8e)	—	Soprometal, Paris
1 Société Genevoise d'Instrumenta. de Physique, 95, Queen Victoria St., E.C.4	Central 7841	Sogenique, Cent., London
4 16 Sokal S., 1, Great James St., Bedford Row, W.C.1	Museum 4511	Sekalsig, London
1 Somers Walter, Ltd., Halesowen	Halesowen 85	Somers, Halesowen
Sosol, Ltd., 20, Copthall Ave., E.C.2	London Wall 6940	Ynosol, Ave., London
1 4 Spencer-Boncourt, Ltd., Parliament Mansions, Victoria St., S.W.1	Victoria 5563	Boncourt, Phone, London
Spencer John, Ltd., Wednesbury	4 (Two Lines)	Tubex, Wednesbury
Spens B. & F. N., Ltd., 57, Haymarket, S.W.	Gerard 3450	Fenspen, Charles, London
Staffordshire Tube Co., Ltd., Edmund St., Birmingham	Central 6456 & 6447	Unbeston, Birmingham
1 27 Standard & Oswald Stott (Engineers), Ltd., Leicester	Leicester 4761-3	Blowing, Leicester
1 Standard Piston Ring & Engineering Co., Premier Works, Don Rd., Sheffield	3149	Ocean, Sheffield
4 Standard Pressed Steel Co., Jenkintown, Pa., U.S.A.	Ogontz 1283	Stamping, Philadelphia
Steam Cylinder Lubricator Co., Ltd., Gordon Works, Lower Broughton, Manchester	Central 1645	Sealfeld, Manchester
1 Steam Fittings Co., Ltd., West Drayton, Middlesex	Yiewsley 18	Cinch, West Drayton
1 2 3 Steel Company of Scotland, Limited, 23, Royal Exchange Square, Glasgow	City 9436 Four Lines	Steel, Glasgow
Steel Construction Co., Ltd., Craighall Ironworks, Glasgow [Douglas 3831		Derisora, Glasgow
1 Steel Pipe Company, Ltd., Kirkcaldy, N.B.	95	Aquilonius, Kirkcaldy
1 3 33 Stephenson Robert, & Co., (1914) Ltd., Darlington	2760	Rocket, Darlington
1 16 Sterne L. & Co., Ltd., Crown Ironworks, Glasgow	Douglas 1064-1066	Crown, Glasgow
1 Sterne L. & Co., Ltd., Donington House, Norfolk St., W.C. [Gerrard 1989		Esterna, London
1 16 Sterns, Ltd., Royal London House, Finsbury Sq., E.C. Clerkenwell 1875		Centamvir, Phone, London
Steven A. & P., 181, St. James Rd., Glasgow	Bell 2171	Provanide, Glasgow
Steven & Struthers, Kelvinhaugh, Glasgow	Western 3375-6	Bronze, Glasgow
Stevens, Clement, Pneumatic Engineering Co., Ltd., 28, Spenser St., Buckingham Gate, S.W.1	Victoria 330	Pneuclete, Seewest, London
1 2 4 6 16 Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow	Bridgeton 271, 3243 & 3244	Stewart, Glasgow
1 16 Stewart J. and W., 12, Berkeley St., W.1	Mayfair 307	Cymplecks, Piccy., London
3 5 Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow	City 6900	Lapwold, Glasgow
1 2 5 Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham [Midland 1224		Lloyds, Birmingham
Still Engine Co., Ltd., 7, Princes St., S.W.1	Victoria 7660	Naprimover, Phone, London
1 Stone J., & Co., Ltd., Deptford, S.E.	New Cross 1202	Tostonex, Deptmark, London
1 16 Stone J. B. & Co., Ltd., 135, Finsbury Pavement, E.C. [Clerkenwell 1695		Slighter, London
Stothert & Pitt, Ltd., Bath	Bath 987	Stothert, Bath
Stothert & Pitt, Ltd., 38, Victoria St., S.W.	Victoria 1249	Stothert, Vic., London
Sturtevant Eng. Co., Ltd., 147, Queen Victoria St., E.C. Central 7121		Sturtevant, London
Sudron Thos., & Co., Ltd., Stockton-on-Tees	Stockton-on-Tees 63	Sudrons, Stockton-on-Tees
Sugden T., Ltd., 180, Fleet St., E.C.	Holborn 186	Tubularity, Fleet, London
1 Summerson Thomas, & Sons, Ltd., Darlington	2660	Summerson, Darlington
Sun Shipbuilding Co., 1428 So. Penn. Square, Philadelphia, Pa., U.S.A.	—	—
Superheater Corporation, Ltd., 14, New Burlington St., W.1	Gerrard 3822	Locosuper, Phone, London
Superheater Units, Ltd., 4, Castle Square, Swansea	Central 1396	Superunits, Swansea
Sutcliffe Bros. & Bryce, Ltd., Globe Works, Hyde, Manchester Hyde 70		Sutcliffe Bros., Hyde
Sutcliffe Ventilating and Drying Co., Ltd., Cathedral Gates, Manchester	City 3920	Ventilabro, Manchester
Telegraphic Codes in use: 1 A B C. 2 A I. 3 Engineering. 4 Lieber's. 5 Moreing's. 6 Private 16 Western Union. 27 Marconi Wireless. 32 Engineering Standards.		

NAME AND ADDRESS OF ADVERTISER.		TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
1 4	Swift George, & Sons, Ltd., Range Bank, Halifax	497	Swiftly, Halifax
	Swiss Machine Tool Works, Oerlikon, Switzerland	Zurich 1245 & 6744	Outh, Oerlikon
1	Swinney Bros., Ltd., Morpeth	Morpeth 92	Swinney, Morpeth
6 16	Swedish General Electric, Ltd., 5, Chancery Lane, W.C.2	Holborn 1703	Autosynco, Fleet, London
	Tangent Tool Engineering Co., Ltd., Keynsham, Somerset	Keynsham 21	Ingenuity, Saltford
6	Tangyes, Ltd., Cornwall Works, Birmingham	Central 6460	Tangyes, Birmingham
6	Tangyes, Ltd., 35, Queen Victoria St., E.C.2	City 5024 (Two Lines)	Tangyes, London
1	Tattersall A. A., & Co., Blackburn	Blackburn 6273	Vitandum, Blackburn
1	Taylor & Challen, Ltd., Derwent Foundry, Birmingham	Central 376	Derwent, Birmingham
1	Taylor Charles (Birmingham), Ltd., Bartholomew Sq., Birmingham	Central 6373, 6374, 6375	Lathos, Birmingham
	Taylor George (Brassfounders), Ltd., Bolton, nr. Manchester	Bolton 158	Taylor, Bolton, 158
1 6	Taylor & Hubbard, Leicester	575	Litling, Leicester
	Terry Steam Turbine Co., Hartford, Conn., U.S.A.	—	—
1 4 6 16	Texas Oil Company, Ltd., Imperial House, 15-19, Kingsway, W.C.2	Gerrard 6550	Texacell, Estrand, London
	Thermotank Co., 55, West Regent St., Glasgow	Douglas 2324	Thermotank, Glasgow
4 16	Thomas & Bishop, 37, Tabernacle St., E.C.2	Clerkenwell 1056	Veicling, London
1	Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston	Bilston 10	Thompson Bros., Bilston
1 3 4 6 16	Thompson John (Wolverhampton), Ltd., Wolverhampton	1138 & 1139	Boller, Wolverhampton
1 16	Thornton A. G., Ltd., 13, King St. West, Manchester	City 8643	Drawing, Manchester
1 3	Thornycroft J. I., & Co., Ltd., Thornycroft House, Smith Square, Westminster, S.W.1	Victoria 8000	Thornycroft, Vic., London
1 3	Thornycroft J. I., & Co., Ltd., Basingstoke, Hants.	39	Thornycroft, Basingstoke
1 3	Thornycroft J. I., & Co., Ltd., Woolston, Southampton	Woolston 15	Thornycroft, Southampton
1 3	Thwaites Brothers, Ltd., Central House, Kingsway, W.C.2	Regent 2368	Steeleite, Westcent, London
	Tickle John, & Co., Ltd., West Bromwich	West Bromwich 335	—
1	Timbrell & Wright Machine Tool & Eng. Co., Ltd., Birmingham	Central 3723	Revolving, Birmingham
	Tinker, Shenton & Co., Ltd., Hyde, near Manchester	Ashton-u-Lyne 21	Duplex, Hyde
1 2 3 4 16	Todd Shipyards Corporation, 25, Broadway, New York, U.S.A.	Bowling Green 6900	Robin, New York
	Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham	East 248	Tomey, Birmingham
	Tranter W. J., Ltd., Tipton, Staffordshire	Tipton 76	Titan, Tipton
1 11	Trewent F. J., & Proctor, Ltd., 4, Billiter Buildings, Billiter St., E.C.	Avenue 121	Trewent, London
	Trier Bros., Ltd., 36, Victoria St., Westminster, S.W.1	Victoria 900	Viscosity, Vic., London
	Triment Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A.	Roxbury 3710 & 3711	Triwrench, Roxbury.
	Triumph Stoker, Ltd., Kirkstall Rd., Leeds	Leeds 27121	Stoker, Leeds
1 2 3	Tubes, Ltd., Birmingham	East 871 & 872	Cylinders, Birmingham
	Tubi-Togni, Ltd., Brescia, Italy	—	—
1 4	Tuck & Blakemore, Ltd., Coventry	Coventry 140	Tuck Blakemore, Coventry
	Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow	Clydebank 265	Tullis, Clydebank
	Tullis D. & J., Ltd., Sardinia House, Kingsway, W.C.	Holborn 210	Kilbowie, Holb., London
1 2	Tullis John, & Sons, Ltd., St. Ann's Works, Glasgow	Bridgeton 54	Tullis, Glasgow
1 33	Turbine Gears, Ltd., Hyde, Cheshire	Hyde 41	Gears, Hyde
	Turbine Furnace Co., Ltd., 238B, Gray's Inn Rd., W.C.	Museum 4365	Asunder, Holb., London
1 6	Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow	Bishopbriggs 49	Valve, Glasgow
	Turton T., & Sons, Ltd., Sheaf Works, Sheffield	1062	Turtons, Sheffield

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11 Scotts. 16 Western Union. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS.
Uehling Instrument Co., 473, Gotty Avenue, Paterson, New Jersey, U.S.A.	—	Uehlinge, New York
1 4 6 Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C.4	{ City 6131 Two Lines	Horsepower, Cannon, London
1 4 6 Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester	{ City 5640 Two Lines	Strength, Manchester
1 4 16 Underfeed Stoker Co., Ltd., Coventry House, South Place, E.C.2	Clerkenwell 2160	Underfeed, Ave., London
1 11 18 27 Union Transit Co., 38r, Argyle St., Glasgow	Central 9395 Private Branch Exchange	Transit, Glasgow
1 4 United Brasmounders & Engineers, Ltd., Cornbrook, Manchester	Central 3134	Stork, Manchester
4 United Hammer Co., Boston, Mass, U.S.A.	—	Fairhammer, Boston
United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne	1938	Impression, Newcastle-on-Tyne
1 4 United States Metallic Packing Co., Ltd., Soho Works, Allerton Rd., Bradford	4705 & 4706	Metallic, Bradford
1 2 16 19 United States Rubber Co., Ltd., 47 & 48, Farringdon St., E.C.4	Central 8235	Kharisum, Cent., London
1 United Water Softeners, Ltd., Imperial House Kingsway, W.C.2	Regent 5270	Aquadolce, Estrand, London
1 33 Universal Grinding Wheel Co., Ltd., Universal Works, Stafford	Stafford 287 & 132	Lightning, Stafford
4 16 Universal Machinery Corporation, Ltd., 326, Old St., E.C.2	Clerkenwell 1442	Toolcraft, London
Universal Valve & Chemical Accessories Co., Dudley Hill, Bradford	Dudley Hill 56	Became, Dudley Hill
1 Unkside Ironworks, Ltd., Newport, Mon.	Newport 3921	Unkside, Newport, Mon.
Utting, S., 82, Victoria St., S.W.1	Victoria 3634	Umpteen, Sewest, London
1 Valer Co., Ltd., Aston Cross, Birmingham	East 252	Valer, Birmingham
1 2 4 16 Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W.1	Victoria 4361	Varispeed, Vic., London
Varley John, & Co., Ltd., St. Helens, Lancs.	St. Helens 43	Varley, St. Helens
1 Vaughan Crane Co., Ltd., Openshaw, Manchester	{ Openshaw 256 Central 5113	Vaunting, Manchester
1 4 Vermont, Ch., Valere, Mabilie & E. Pilgrims, Ltd., 83, Victoria St., S.W.1	Victoria 337	Ironfisted Vic., London
Vibration Speciality Co., Harrison Buildings, Philadelphia, U.S.A.	—	—
2 Vickers Ltd., River Don Works, Sheffield	Central 3200	Vickers, Sheffield
2 Vickers Limited, Vickers House, Broadway, Westminster S.W.	Victoria 6900	Vickers, Vic., London
16 Vickers-Petters, Ltd., 75B, Queen Victoria St., E.C.4	City 5014	Escapable, Cent., London
1 Victoria Tube Co., Ltd., Great Bridge, Staffordshire [West Bromwich	115	Victoria, Tipton
1 Vesper & Co., Ltd., Broad St., Portsmouth	2137	Repsov, Portsmouth
1 4 27 Wadkin & Co., London St., Leicester	3614	Woodworker, Leicester
2 11 Wallis Dove Bitumastic, Ltd., 5, St. Nicholas Buildings, Newcastle-on-Tyne	Cent. 4637	Bitumastic, Newcastle-on-Tyne
1 Walker W. A., & Co., 38, Victoria St., Westminster, S.W.	Victoria 3190	Vilvalle, London
Walker, T. J., 119, Charles Henry St., Birmingham	Midland 723	—

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16 Western Union. 19 Universal. 27 Marconi. 33 Bentley's.

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1 4 5 16	Walker Bros. (Wigan), Ltd., Pagefield Ironworks, Wigan	Wigan 714	Pagefield, Wigan
	Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E.	[East 4253	Lioncourt, Pop., London
	Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs.	1197	Bolting, Bolton
1 33	Wallend Slipway & Engineering Co., Ltd., Wallsend	{ Wallsend 117 City 412	Wall, Newcastle-on-Tyne
	Wallwork Henry, & Co., Ltd., Manchester	City 8400	Foundry, Manchester
	Ward H. W., & Co., Ltd., Dale Rd., Selly Oak, Birmingham	Selly Oak 26	Tudor, Birmingham
1 2 4	Ward T. W., Ltd., Albion Works, Sheffield	Central 4331	Forward, Sheffield
16 33	Warner Robert, & Co. (Engineers), Ltd., 14 & 16, Cockspur St., S.W.1	Gerrard 3330	Hydrological, Westrand, London
1 2 3 4	Watson, Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow	{ South 1700 Three Lines	Fugal, Glasgow
16 27 29	Watt Motors, Ltd., Premier House, 150, Southampton Row, W.C.1	Museum 3561	Orlances, Westcent., London
	Waygood-Otis, Ltd., Falmouth Rd., S.E.	Hop 4000	Waygood, Sedht, London
1	Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket	[Stowmarket 23	Webb, Combs
1 4 16 27	Webster & Bennett, Ltd., Foleshill, Coventry	Coventry 1168	Profile, Coventry
1 16	Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow	[Langside 450	Glewe, Glasgow
	Weldless Steel Tube Co., Ltd., Wednesfield Works, Wednesfield, nr. Wolverhampton	Wolverhampton 1301	Steel, Wednesfield
1 3 16 33	Wellman Smith Owen Engineering Corporation, Ltd., King's House, Kingsway, W.C.2	Holborn 2588	Principalm, Westcent., London
1	Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.	.. North 341	Unbreakable, London
1	Wells A. C., & Co., Carnarvon St., Cheetham, Manchester	.. City 1244	Unbreakable, Manchester
1 4 5	Went Conrad, Haarlem, Holland	.. ..	Worleconrad, Haarlem
	Wenson W., & Co., Ltd., Moxley, Wednesbury	Wednesbury 62	Iron, Wednesbury
1 27	West H. J., & Co., Ltd., 72 & 74, Gray's Inn Rd., W.C.1	City 3646	Frigity, Holb., London
1 26	Western Wheeled Scraper Co., Aurora, Illinois, U.S.A.	.. Aurora 137	Western, Aurora, Illinois
1 33	Westinghouse Brake & Sarby Signal Co., Ltd., 82, York Rd., King's Cross, N.	.. North 2416	Westinghouse, Kinross, London
1 4 16 33	Westinghouse Electric International Co., 2, Norfolk St., Strand, W.C.	Gerrard 3261	Wemcoexpe, Westcent., London
1	Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W.15	Putney 1198	Westoleico, Putney, London
1 3 4	Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.	East 4206	Westwood, Millwall, London
16	Wharton H., Ltd., Station Rd., Reddish, Stockport	Heaton Moor 470	Gallant, Manchester
	Wheeler Manufacturing Co., Ltd., 65E, Trench Crossing, Wellington, Salop	.. ..	..
	Whitaker D., 1, Union St., Leicester	.. Central 2519	Excavator, Leicester
33	White Patent Oil Burning Co., Ltd., Shadwell St., South Shields	709	Whitell, South Shields
	White's Injectors, Ltd., Pendleton, Manchester	.. Pendleton 58	Whites, Pendleton, Manchester
1 3 4 16	White J. Samuel, & Co., Ltd., East Cowes, I.O.W.	.. Cowes 3	White, East Cowes
1	White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W.1	North 2066	Saturation, Norwest, London
1 2 3 5 16	White Rd., & Sons, Widnes, Lancs.	.. ..	Balls, Widnes
	Wiggins F., & Sons, 102, 103 & 104, Minories, E.	.. Avenue 2348	Wiggins, Minories, London
1	Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley, near Bradford	.. Shipley 333	Clutch, Shipley
1	Wiley James, & Sons, Ltd., Darlaston	.. Darlaston 92	Wiley, Darlaston
1	Wilcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.	Hop 3140	Wilcox, Southwark St., London

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16 Western Union. 27 Marconi Wireless. 29 Mercury. 33 Bentley's.

NAME AND ADDRESS OF ADVERTISER.	TELEPHONE NUMBER.	TELEGRAPHIC ADDRESS
1 Willett, Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.	Cradley 36	Willett Junr., Cradley Heath
4 16 21 Williams J. H., & Co., 91, Richard St., Brooklyn, New York, U.S.A.	—	Wilrich, New York
Wilkins & Mitchell, Darlaston, South Staffs.	Darlaston 36	—
Wills, W. & F., Ltd., Bridgewater .. .. .	.. .. . 8	Wills, Bridgewater
4 Wilson J. H., & Co., Ltd., Dock Rd., Birkenhead	Birkenhead 1564	Engineers, Liverpool
1 6 Wilson William, & Co., Lilybank Boiler Works, Glasgow	[Bridgeton 3645	Boiler, Glasgow
Wincott G. P., Ltd., 180, Attercliffe Rd., Sheffield	Central 590	Wincott, Sheffield
Winn Charles, & Co., Granville Place, Birmingham	[Midland 366 & 1437	Winn, Birmingham
Winn W. Martin, & Co., Station Works, Darlaston	Darlaston 73	Accuracy, Darlaston
Witton-Kramer Electric Tool & Helix Works, Witton, Birmingham	East 291	Polyphase, London
1 4 Wolsey Motors Ltd., York St. S.W.	Victoria 6220	Autovent, Vic., London
Wolsey Motors Ltd., Adderley Park, Birmingham	Central 4361	Exactitude, Birmingham
2 16 33 Wolverhampton Corrugated Iron Co., Ltd., Ellesmere Port, Nr. Birkenhead	Ellesmere Port 32	Corrugated, Ellesmere Port
1 4 16 33 Wombam, Bates & Goode (Inc.), 5, London Wall Buildings, E.C.	London Wall 5391	Astecas, London
1 Wood Henry, & Co., Ltd., Saltney, Nr. Chester	Chester 569	Wood, Saltney
Wood Hugh, & Co., Ltd., 65, Fenchurch St., E.C.	Avenue 1545	Hinwood, Fen., London
Woodie Company, Mitcham Common, Surrey	Mitcham 1562	Woodie, Mitcham
1 2 3 4 Worthington-Simpson, Ltd., Queen's House, Kingsway, W.C.: Holborn 3643, 3649 and 3650 .. .. .	.. .. .	Pumping, Westcent, London
1 3 6 Wright's Forge & Engineering Co., Ltd., Tipton, Staffordshire	Tipton 32	Forgings, Tipton
6 Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, E.C.	London Wall 6585	Penetration, London
Yale & Towne Manufacturing Co., 15, Mallow St., Old St., E.C.1	Clerkenwell 1760	—
3 Yarrow & Co., Ltd., Glasgow	Western 2682	Yarrow, Glasgow
1 4 11 16 Yorkshire Copper Works, Ltd., Leeds	26931	Tubes, Leeds
1 Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield	Attercliffe 129-136	Engine, Sheffield
4 25 Youngs, Ryland St. Works, Birmingham	Midland 391	Oldens, Birmingham
24 Zwicky Pump Co., Ltd., 284, Salisbury House, London Wall, E.C.2	London Wall 284	Nonce, Phone, London

Telegraphic Codes in use: 1 A B C. 2 A 1. 3 Engineering. 4 Lieber's. 6 Private.
 11 Scott's. 16 Western Union. 21 Agar's Standard. 24 Broomhall's. 25 Premier. 33 Bentley's.

KEY TO TELEGRAPHIC ADDRESSES.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Abbey, Lincoln	Clayton Wagons, Ltd., Abbey Works, Lincoln.
Abbott, Newark	Abbott & Co. (Newark), Ltd., Newark-on-Trent
Accuracy, Darlaston	Winn W. Martin, & Co., Station Works, Darlaston
Accelerator, Bowest, London	Allen-Liversidge, Ltd., 106, Victoria St., S.W.
Achilles, Glasgow	London Brothers, Ltd., 39, West Campbell St., Glasgow
Achineel, Bothroad, London	Machinery & Steels, Ltd., 64, Great Eastern St., E.C. 2
Adamson, Dukinfield	Adamson Daniel, & Co., Ltd., Dukinfield
Adopted, Strat., London	Grover & Co., Ltd., Carpenters Rd., Stratford, B.
Adroit, Dudley Hill	Newton, Bean & Mitchell, Dudley Hill, Bradford
Adt, Newhaven, U.S.A.	Shuster F. B. Co., Newhaven, Conn., U.S.A.
Aerography, London	Acrograph Co., Ltd., 43, Holborn Viaduct, E.C.
Afco, Glasgow	Anderson Foundry Co., Ltd., 100, Cheapside St., Glasgow
Agenciador (10), London	Patent Lightning Crusher Co., Ltd., 142, Rosebery Avenue, E.C.
Agroengie, Westcent, London	Agricultural & General Engineers, Ltd., Central House, Kingsway, [W.C.2]
Airstyle, Fleet, London	Airstyle & Lithos, Ltd., 35, St. Bride St., Ludgate Circus, E.C.
Ajax, Manchester	Dunkley C. C., & Co., Ltd., Store St., Manchester
Ajax, Glasgow	Bennie James & Sons, Ltd., Clyde Engine Works, Govan, Glasgow
Alexson, Leeds	Alexander, Herbert, & Co., Ltd., Leeds
Alldays, Birmingham	Alldays & Unions, Ltd., Birmingham
Allen, Sheffield	Allen Edgar & Co., Ltd., Imperial Steel Works, Sheffield
Alley, Glasgow	Alley & Maclellan, Ltd., Sentinel Works, Glasgow
Alma, Walsall	Russell John, & Co., Ltd., Alma Tube Works, Walsall
Aloyan, Cannon, London	Atlas Metal & Alloys Co., Ltd., 52, Queen Victoria St., E.C.
Alweprol, Phone, London	Alloy Welding Processes, Ltd., 14-16, Cockspur St., S.W.1
Amarilla, Derby	Fletcher George, & Co., Ltd., Litchurch, Derby
Analytical, Manchester	Brownlie & Green, Ltd., Church St., Cheetham, Manchester
Anchorage, Manchester	Roddaway F., & Co., Ltd., Pendleton, Manchester
Anderson, Belfast	Anderson D., & Son, Ltd., Lagan Works, Belfast
Andrube, Holb., London	Andrews & Beaumont, 29, Southampton Buildings, W.C. 2
Anglia, London	Ransomes, Sims & Jefferies, Ltd., 64, Queen Victoria Street, E.C. 4
Angus, Newcastle	Angus George, & Co., Ltd., Newcastle-on-Tyne
Apornace, Phone, London	Ferman & Co., Ltd., 82 & 83, Fenchurch St., E.C. 3
Apex, Sheffield	Apex Steel Co., Ltd., Penistone Rd., Sheffield
Appendix, Glasgow	Ritchie-Atlas Engineering Co., Atlas Works, Temple, Glasgow
Appliances, Manchester	Empire Engineering Co. (Manchester), Ltd., Salford, Manchester
Aquadoice, Estrand, London	United Water Softeners, Ltd., Imperial House, Kingsway, W.C. 2
Aquapures, Cent., London	Bulring's Patent Water Purifying Co., 146A, Queen Victoria St., E.C. 2
Aquifentus, Kirkcaldy	Steel Pipe Company, Ltd., Kirkcaldy, N.B.
Archdale, Birmingham	Archdale Jas., & Co., Ltd., Lednam St., Birmingham
Armstrongs, Birmingham	Armstrong, Stevens & Son, Ltd., Whittall St., Birmingham
Armsiddle, Cent., London	Selwyn A. H., Ltd., 8, Laurence Lane, Cheapside, E.C.2
Asbestos, Bradford	Cresswells' Ltd., Wellington Mills, Bradford
Assulders, Schiedam	Smulders A. F., Schiedam, Rotterdam, Holland
Aster, Wembley	Aster Engineering Co. (1913), Ltd., Wembley, Middlesex
Asterdal, Enghy	British Thomson-Houston Co., Ltd., Rugby
Ausander, Holb., London	Turbine Furance Co., Ltd., 238s, Gray's Inn Rd., W.C.1
Atkinsaw, Indianapolis	Atkins E. C., & Co., Inc., Indianapolis, Indiana, U.S.A.
Atlas, Cent., Birmingham	Piggott Thos., & Co., Ltd., Birmingham

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Atlas, Gloucester	Fielding & Platt, Ltd., Atlas Works, Gloucester
Atlas, Sheffield	Brown John, & Co., Ltd., Sheffield
August, Halifax	August's Muffle Furnaces, Ltd., King's Cross, Halifax, England
Automobile, Glasgow	Albion Motor Car Co., Ltd., Scotstoun, Glasgow
Autocynco, Fleet, London	Swedish General Electric, Ltd., 5, Chancery Lane, W.C. 2
Autovent, Vic., London	Waiseley Motors, Ltd. York St., Westminster, S.W.
Avaturb, Westcent, London	De Laval Steam Turbine Co., 150, Southampton Row, W.C.
Aveling, Rochester	Aveling & Porter, Ltd., Rochester
Avery, Birmingham	Avery W. T., Ltd., Soho Foundry, Birmingham
Aztecas, London	Wonham, Bates & Goode, Inc., 3, London Wall Buildings, E.C.
Backlash, Fleet, London	McGraw-Hill Publishing Co., Ltd., 6 & 8, Bouverie St., E.C. 4
Bagnall, Stafford	Bagnall W. G., Ltd., Castle Engine Works, Stafford
Bakers, London	Baker, Joseph, Sons & Perkins, Ltd., 21, College Hill, Cannon St., E.C. 4
Balderston, Glasgow	Balderston & Co., Ltd., 201, St. Vincent St., Glasgow.
Baldwin, Philadelphia	Baldwin Locomotive Works, The, 500, North Broad St., Philadelphia, Pa., U.S.A.
Barclayson, Kilmarnock	Barclay Andrew, Sons, & Co., Ltd., Caledonia Works, Kilmarnock
Barr, Kilmarnock	Barr, Thompson & Co., Ltd., Kilmarnock, Scotland
Barry, Aberdeen	Barry, Henry, & Cook, Ltd., Aberdeen
Barton, Hull	Bartoline (Hull), Ltd., Myton Place, Hull
Bassett-Lowke, Northampton	Bassett-Lowke, Ltd., Northampton
Battery, Selly Oak	Birmingham Battery & Metal Co., Ltd., Birmingham
Bayliss, Wolverhampton	Bayliss, Jones & Bayliss, Ltd., Wolverhampton
Beacon, Salford	Bailey W. H., & Co., Ltd., Albion Works, Salford, Manchester
Beardmore, Glasgow	Beardmore William, & Co., Ltd., Parkhead Steel Works, Glasgow
Bearings, Newark	Ransome & Marles Bearing Co., Ltd., Newark-on-Trent
Became, Dudley Hill	Universal Valve & Chemical Accessories Co., Dudley Hill, Bradford
Beebee, Fallings Heath, Wednesbury	Beebee A., Wednesbury
Belfry or Asbestos, London	Bell's United Asbestos Co., Ltd., 593, Southwark St., S.E.
Bellamy, London	Bellamy John, Ltd., Millwall, E.
Belliss, Birmingham	Belliss & Morcom, Ltd., Ledsam St. Works, Birmingham
Belmont, Birmingham	Russell John, & Co., Ltd., New Spring St., Birmingham
Bolting, Bolton	Walker William, & Sons, Ltd., Manchester Rd., Bolton, Lancs.
Bennis, Little Hulton, Bolton	Bennis Ed., & Co., Ltd., Little Hulton, Bolton
Beppo, Glasgow	British Electric Plant Co., Ltd., 66, Carrick St., Glasgow
Bergius, Glasgow	Bergius Launch & Engine Co., Ltd., 254, Dobbies Loan, Glasgow
Berry, Sowerby Bridge	Berry F., & Sons, Sowerby Bridge, Yorkshire
Bertram, Edinburgh	Bertrams Limited, Sciennes, Edinburgh
Bessemer, Sheffield	Bessemer Henry, & Co., Ltd., Sheffield
Betts, Rochester	Bett's Machine Co., Rochester, New York, U.S.A.
Bird, London	Bolling & Lowe, 2, Laurence Pountney Hill, E.C.
Bitumastic, Newcastle-on-Tyne	Wallis Dove Bitumastic, Ltd., 5, St. Nicholas Buildings, Newcastle-on-Tyne
Blackstones, Stamford	Blackstone & Co., Ltd., Rutland Works, Stamford
Blakeboroughs, Brighouse	Blakeborough J., & Sons, Ltd., Woodhouse Works, Brighouse, Yorks
Blockeries, Ald., London	Chandler, Lindsay & Co., 11-13, Upper East Smithfield, E.C. 1
Blowing, Leicester	Standard & Oswald Stott (Engineers), Ltd., Evington Valley Rd., Leicester
Blundell, Pop., London	Blundell's London Copper & Brass Works (1910), Ltd., West India Dock Rd., Limehouse, E.
Bodley, Exeter	Bodley Bros. & Co., Old Quay Foundry, Exeter

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Beller, Cradley Heath	Cradley Beller Co., Ltd., Cradley Heath, Staffordshire
Beller, Glasgow	Wilson William, & Co., Lilybank Boiler Works, Glasgow
Beller, Wolverhampton	Thompson John (Wolverhampton) Ltd., Wolverhampton
Bellers, Halifax	Hartley & Sugden, Ltd., Atlas Works, Halifax, Eng.
Bellers, Loughborough	Coltman Walter W., & Co., Ltd., Central Boiler Works, Loughborough
Bolts, Manchester	Marsden S., & Son, Ltd., London Rd., Manchester
Bonaccord, Glasgow	Drysdale & Co., Ltd., Bon Accord Works, Yoker, Glasgow, W.
Bonaccourt, Phone, London	Spencer-Bonaccourt, Ltd., Parliament Mansions, Victoria St., S.W.1
Borings, Birmingham	Rapid Magnetising Machine Co., Ltd., 52, Lombard St., Birmingham
Bom, Leicester	British Steam Specialities, Ltd., Bedford St., Leicester
Boulton, Norwich	Boulton & Paul, Ltd., Norwich
Bowran, Newcastle-on-Tyne	Bowran Robert, & Co., Ltd., 4, St. Nicholas Buildings, Newcastle-on
Boxhaling, Pen., London	British Ropeway Engineering Co., Ltd., 7, Mincing Lane, E.C.3 [Tyne
Braine, Hunslet, Leeds	Braine T. F., & Co., Ltd., Hunslet, Leeds
Brake, Manchester	Grasham & Craven, Ltd., Salford, Manchester
Brakes, West Bromwich	Electro Mechanical Brake Co., Ltd., Bagle Works, West Bromwich
Brampton, Birmingham	Brampton Bros., Ltd., Birmingham
Brecknell, Bristol	Brecknell, Munro & Rodgers, Ltd., Thrissell St., Bristol
Bretts, Coventry	Brett's Stamping Co., Ltd., Harnall Lane, Coventry
Bridge, Motherwell	Motherwell Bridge Co., Ltd., Motherwell, N.B.
Briquette, Leeds	Briquette Machinery, Ltd., Charnmouth St., Leeds
Britannia, Manchester	Muk Wm., & Co., Ltd., Sherbourne St., Manchester
Brinkma, Westcent, London	Electric Lamp Manufacturers' Association of Great Britain, Ltd., 25, Bedford Square, W.C.1
Britanics, Westrand, London	British Niclause Boiler Co., Ltd., The Clock House, Arundel St., Strand, W.C.2
Britoolmak, Phone, London	Associated British Tool Makers, Ltd., 17, Grosvenor Gardens, S.W.1
Broadbent, Huddersfield	Broadbent Thos., & Sons, Ltd., Chapel Hill, Huddersfield
Bromkirk, Sewest, London	Brathwaite & Co. (Engineers), Ltd., 117, Victoria St., S.W.1
Bronze, Glasgow	Steven & Struthers, Kelvinhaugh, Glasgow
Bronze, Longport	Billington & Newton, Ltd., Longport, Stoke-on-Trent
Broom, High Wycombe	Broom & Wade, Ltd., High Wycombe
Brotherhood, Peterborough	Brotherhood Peter, Ltd., Peterborough
Browning, Cleveland	Browning Co., Cleveland, Ohio, U.S.A.
Brownhoist, Cleveland, U.S.A.	Brown Hoisting Machinery Co., Cleveland, Ohio, U.S.A.
Budenberg, Altrincham	Budenberg Gauge Co., Ltd., Broadheath, nr. Manchester
Bullard, Bridgeport	Bullard Machine Tool Co., Bridgeport, Conn., U.S.A.
Bullivant, Pen., London	Bullivant & Co., Ltd., 72, Mark Lane, E.C.
Burmelsters, Copenhagen	Burmelster & Wain, Ltd., Copenhagen C., Denmark
Burmese, Birmingham	Suckling William, & Sons, Cradley Heath, Staffs.
Bustris, Led., London	Hampton & Dean, Clifton Works, Wednesbury
Butler, Halifax, England	Butler Machine Tool Co., Ltd., Victoria Ironworks, Halifax, Eng.
Callicom-Churton, London	Burton, Griffiths & Co., Ltd., 64 to 70, Vauxhall Bridge Rd., S.W.
Callid, Glasgow	McKie & Baxter, Copland Works, Govan, Glasgow
Camsas, Halifax	Campbell Gas Engine Co., Ltd., Halifax, England
Cammellaird, London	Cammell Laird & Co., Ltd., 3, Central Bldgs., Westminster, S.W.
Cammellaird, Sheffield	Cammell Laird & Co., Ltd., Cyclops Steel and Iron Works, Sheffield
Carbide, Newcastle-on-Tyne	Dargue Acetylene Gas Co., Ltd., 57 & 59, Grey St., Newcastle-on-Tyne
Carrex, New York	American Car & Foundry Co., 165, Broadway, New York, U.S.A.
Carriage, Smethwick, Birmingham	Birmingham Railway Carriage & Wagon Co., Ltd., Smethwick, Bir-
Carrouade, Falkirk	Carron Company, Carron, Stirlingshire [mingham
Carwheel	Fuller-Lehigh Co., Fullerton, Pa., U.S.A.
Casartelli, City 2658, Manchester	Casartelli Joseph, & Son, 18, Brown St., Manchester

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Casements, Smethwick ..	Hope, Henry & Sons, Smethwick, Birmingham
Castings, Bury St. Edmunds ..	Northgate Ironworks Co., Bury St. Edmunds, Suffolk
Castings, Luton ..	Davis Furnace Co., Diamond Foundry, Luton, Beds.
Castings, Sheffield ..	Brightside Foundry & Engineering Co., Ltd., Sheffield
Castings, Smethwick ..	Dominion Malleable, Ltd., Etna Works, Smethwick
Castings, Sunderland ..	Jopling E., & Sons, Ltd., Pallion Steel Works, Sunderland
Castleton, Manchester ..	Bridge David, & Co., Ltd., Castleton, Manchester
Caulking, Piccy, London ..	Consolidated Pneumatic Tool Co., Ltd., Egyptian House, 170, Piccadilly, [W.1]
Centigrad, Belfast ..	Musgrave & Co., Ltd., Belfast
Centranos, Vic., London ..	Integral Oxygen Co., Ltd., 38, Victoria St., S.W. 1
Centumvir, Phone, London ..	Sterns Ltd., Royal London House, Finsbury Square, E.C.
Chadburn, Liverpool ..	Chadburn's (Ship) Telegraph Co., Ltd., Cyprus Rd., Bootle, Lanca.
Chainbelt, Derby ..	Ewart Chainbelt Co., Ltd., Derby
Chains, Coventry ..	Coventry Chain Co., Ltd., Coventry
Chalkiness, Estrand, London ..	Smidth F. L., & Co., Ltd., 20, Essex St., W.C.2
Chaplin, Glasgow ..	Chaplin Alex., & Co., Ltd., Govan, Glasgow
Chatwin, Birmingham ..	Chatwin Thos., Ltd., Gt. Tindal St., Birmingham [Rd., S.E.]
Cheaper, Char., London ..	Harvey G. A., & Co. (London), Ltd., Greenwich Metal Wks., Woolwich
Chief Goods, Railway, York ..	North Eastern Railway Co., York
Childred, Birmingham ..	Croft A. J., & Co., Ltd., Holly Lane, Perry Bar, Birmingham
Chuck, Leicester ..	Jones, A. A. & Shipman, Ltd., East Park Road, Leicester.
Clarendoma, Ave., London ..	Kloes F., & Sons, Ltd., 20, Copthall Avenue, E.C.2
Claytons, Lincoln ..	Clayton & Shuttlesworth, Ltd., Lincoln, England
Cleveland, Darlington ..	Cleveland Bridge & Engineering Co., Ltd., Darlington
Cliffell, Johnstone ..	Clifton & Waddell, Johnstone, near Glasgow
Clinchex, Phone, London ..	North-British Rubber Co., Ltd., 257-259, Oxford St., W.1
Clutch, Shipley ..	Wigglesworth Frank, & Co., Ltd., Clutch Works, Shipley nr. Bradford
Cochrane, Barrhead ..	Cochrane, John (Barrhead), Ltd., Barrhead, nr. Glasgow
Cockburn, Glasgow ..	Cockburns, Ltd., Clydesdale Works, Cardonald, Glasgow
Cognition, New York ..	Manning, Maxwell & Moore, Inc., New York
Cogs, Birmingham ..	Lloyd Richard, & Co., Galton Works, Steelhouse Lane, Birmingham
Cole, Bradford ..	Cole, Marchant & Morley, Ltd., Bradford
Coles, Derby ..	Coles H. J., Ltd., London Crane Works, Derby
Coltmans, Loughborough ..	Coltman H., & Sons, Loughborough
Colville, London ..	Colville David, & Sons, Ltd., 54, Old Broad St., E.C.
Colville, Glasgow ..	Colville David, & Sons, Ltd., 195, West George St., Glasgow
Comorri, Loughborough ..	Morris Herbert, Ltd., Loughborough, England
Compactum, Led., London ..	Kirkaldy John, Ltd., 101, Leadenhall St., E.C.3
Compass, Glasgow ..	Dobbie, McInnes & Clyde, Ltd., 57, Bothwell St., Glasgow
Concordance, Ave., London ..	Electric Construction Co., Ltd., 9, New Broad St., E.C.2
Conical, Glasgow ..	Lindsay R. B., & Co., 38, Mair St., Plantation, Glasgow
Contemporary, Cent., London ..	Pitman Sir Isaac & Sons, Ltd., Parker St., Kingsway, W.C.2
Control, Glasgow ..	Electric Control, Ltd., Bridgeton, Glasgow
Conveyor, Accrington ..	Conveyor & Elevator Co., Ltd., Accrington, Lancashire
Coordinat., York ..	Cooke T., & Sons, Ltd., Buckingham Works, York
Copper Co., London ..	Broughton Copper Co., Ltd., London
Copper Co., Manchester ..	Broughton Copper Co., Ltd., Manchester
Corrugated, Ellesmere Port ..	Weaverhampton Corrugated Iron Co., Ltd., Ellesmere Port, nr. Birkenhead
Corrugated, Glasgow ..	Clyde Structural Iron Co., Ltd., Clydeside Ironworks, Scotstoun, Glasgow
Courteous, Ennsroad, London ..	Braby Fredk., & Co., Ltd., Fitzroy Works, 352-364, Euston Rd., N.W.
Covers, Birmingham ..	Dunlop Rubber Co., Ltd., Para Mills, Aston Cross, Birmingham
Cradeck, Wakefield ..	Cradeck Geo., & Co., Ltd., Wire Rope Works, Wakefield
Craig-Donald, Johnstone ..	Craig & Donald, Ltd., Johnstone, Renfrewshire, N.B.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Craig, Paisley .. ..	.. Craig A. F., & Co., Ltd., Caledonian Engine Works, Paisley
Cranes, Aberdeen .. ..	.. Henderson John M., & Co., King's Works, Aberdeen, Scotland
Cranes, Bedford .. ..	.. Bedford Engineering Co., Bedford, England
Cranes, Motherwell .. ..	.. Jack Alexander, & Co., Ltd., Whitegates Engineering Wks., Motherwell, Scotland
Cranes, Pudsey .. ..	.. Middleton Bros., Westover Works, Pudsey, Leeds
Cranes, Reddish .. ..	.. Heywood S. H., & Co., Ltd., Reddish
Cranes, Rodley .. ..	.. Booth Joseph, & Bros., Rodley, Leeds
Cranks, Lincoln .. ..	.. Clarke's Crank & Forge Co., Ltd., Lincoln
Cranks, Lincoln .. ..	.. Farrar Boller Works, Ltd., Lincoln
Craven, Reddish .. ..	.. Craven Brothers (Manchester), Ltd., Vauxhall Wks., Reddish, Stockport
Craven, Wakefield .. ..	.. Bradley & Craven, Ltd., Westgate Common Foundry, Wakefield
Crofters, Bradford .. ..	.. Crofts (Engineers), Ltd., Leeds Rd., Bradford, Yorkshire
Crompton, Phone, London	.. Crompton & Co., Ltd., Salisbury House, London Wall, E.C.2
Crosby, London .. ..	.. Crosby Valve & Engineering Co., Ltd., 41 & 42, Foley St., W.1
Crown, Glasgow .. ..	.. Sterne L., & Co., Ltd., Crown Ironworks, Glasgow
Crown, Gortonbrook .. ..	.. Higginbottom & Mannock, Ltd., West Gorton, Manchester
Crown, Sheffield .. ..	.. Lee Arthur & Sons, Ltd., Sheffield
Crucigraph, Vic., London	.. Dixon, Joseph, Crucible Co., 28, Victoria St., S.W.1
Cuffin, Leicester .. ..	.. Cuffin W. H., North Evington, Leicester
Cumulative, Phone, London	.. Paterson Engineering Co., Ltd., 21, Windsor House, Kingsway, W.C.2
Curtis, Bridgeport, Conn. ..	.. Curtis & Curtis Co., 77, Garden St., Bridgeport, Conn.
Cushman, Hartford .. ..	.. Cushman Chuck Co., Hartford, Conn., U.S.A.
Custodians, Sewest, London	.. Custodia, Ltd., 119, Victoria St., S.W.1
Cyclops, Gateshead .. ..	.. Clarke, Chapman & Co., Ltd., Gateshead-on-Tyne
Cylinders, Birmingham ..	.. Tubes Ltd., Birmingham
Cymlecks, Piccy., London ..	.. Stewart J. & W., 12, Berkeley St., W.1
Daniell, Birmingham .. ..	.. Daniell S. A., Ltd., Edward St., Parade, Birmingham
Danicks, Stroud .. ..	.. Danicks T. H. & J., Ltd., Stroud, Glos.
Danks, Netherton, Dudley ..	.. Danks H. & T. (Netherton), Ltd., Netherton, Dudley
Dawsons, Lincoln .. ..	.. Dawson James, & Son, Ltd., Boulton Works, Lincoln
Day Summers, Southampton	.. Day, Summers & Co., Ltd., Northam Ironworks, Southampton
Delburn, Motherwell .. ..	.. Marshall, Fleming & Co., Ltd., Motherwell, N.B.
Delta, Fastgren, London ..	.. Delta Metal Co., Ltd., East Greenwich, S.E.
Deltidium, London .. ..	.. Baszanger J., & Co., Ltd., Audrey House, Ely Place, E.C.1
Dempster, Elland .. ..	.. Dempster Robert, & Sons, Ltd., Elland, Yorks
Dempster, Glasgow .. ..	.. Dempster, Moore & Co., Ltd., 49, Robertson St., Glasgow
Denwatest, Vic., London ..	.. Denison Samuel, & Son, Ltd., 23, Victoria St., S.W.1
Derwent, Birmingham .. ..	.. Tayler & Challen, Ltd., Derwent Foundry, Birmingham
Deviners, Glasgow .. ..	.. Steel Construction Co., Ltd., Craighall Ironworks, Glasgow
Diagoba, Westrand, London	.. Constable & Co., 10, Orange St., Leicester Sq., W.C.
Diagram, Liverpool .. ..	.. Hughes & Lancaster, Liverpool
Diamond, Carnoustie .. ..	.. Anderson-Grice Co., Ltd., Carnoustie, Scotland
Dieselben, Piccy., London ..	.. Carols Diesel & Steam Engines (London), Ltd., Carlton House, Regent St., S.W.1
Dieselmot Estrand, London ..	.. Atlas Diesel Co., Ltd., 33, Surrey St., W.C.2
Distend, Vic., London .. ..	.. Expanded Metal Co., Ltd., York Mansions, York St., Westminster, [S.W.]
Dockyard, Dublin .. ..	.. Dublin Dockyard Co., Ltd., North Wall, Dublin
Dogspike, Wishaw .. ..	.. Russell John G., Clydesdale Nail Works, Wishaw, Scotland
Dolphin, Leeds .. ..	.. Campbells & Hunter, Ltd., Dolphin Foundry, Leeds
Domining, Vic., London ..	.. Morden S. H., & Co., Ltd., Dartmouth St., Westminster, S.W.1
Donkin, Chesterfield .. ..	.. Donkin Company, Ltd. (The Bryan), Chesterfield
Douglas, Kirkcaldy .. ..	.. Douglas & Grant, Ltd., Dunnikier Foundry, Kirkcaldy, N.B.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Bexford, Sunderland	Bexford William, & Sons, Ltd., Sunderland
Birch, Manchester	Thornton A. G., Ltd., 13, King St. West, Manchester
Bodger, Port Glasgow	Ferguson Brothers (Port-Glasgow), Ltd., Newark Works, Port-Glasgow
Brill, Halifax	Asquith William (1919), Ltd., Park Works, Halifax
Bristol, Smethwick	Smethwick Stamping Co., Bridge St., Smethwick, Staffs.
Brum, Bradford	Brum Engineering Co., Ltd., 28, Humboldt St., Bradford
Bryelene, Beckurh, London ..	Dixon's White, Ltd., Albion Wharf, Bow, E.
Buxton, Hyde	Tinker, Shenton & Co., Ltd., Hyde, near Manchester
Dykasa, Wilread, London ..	Patent Die-Casting Co., Ltd., 64, Strode Rd., N.W. 10
Dynamo, Oldham	Hall J. P., & Co., Ltd., Oldham
Eastwardly, London	McGregor, Gow & Holland, Ltd., 1 & 4, Fenchurch Avenue, E.C.3
Ebonite, Fench, London	Barrett & Elera, Ltd., Wallis Rd., Hackney Wick, E.9
Economiser, Wakefield	Green E., & Son, Ltd., Wakefield
Economy, Hazel Grove	Mirrlees, Bickerton & Day, Ltd., Hazel Grove, nr. Stockport
Eerik, London	American Lead Pencil Co., 173 & 175, Lower Clapton Rd., N.E.
Edmeston, Patricroft	Edmeston Archibald, & Sons, Ltd., Patricroft, near Manchester
Efficiency, London	Leroy F., & Co., 20, Gray St., Commercial Rd., E.
Electric, Croydon	London Electric Firm, Brighton Rd., Croydon
Electricity, Westcent, London ..	General Electric Co., Ltd., Magnet House, Kingsway, W.C.2
Elaprasus, Vaux., London ..	Electrical Apparatus Co., Ltd., South Lambeth Rd., S.W.8
Elliot Company, Cardiff	Elliot George, & Co., Ltd., Cardiff
Elliot Company, London	Elliot George, & Co., Ltd., 16, Great George St., Westminster, S.W.
Ellisons Ltd., Irlams-o'-th'-Height ..	Ellison W. T., & Co., Irlams-o'-th'-Height, Manchester
Elstern, London	Sterne L., & Co., Ltd., Donington House, Norfolk St., W.C.
Elyer, Cadhead	Royles Limited, Irlam, near Manchester
Emergency, Leicester	Progressive Engineering Co., Ltd., Ayleston Rd., Leicester
Emirship, London	Criplock Washer, Ltd., 6A, Tudor St., Blackfriars, E.C.
Empire, Vic., London	Empire Roller Bearings Co., Ltd., 13, Victoria St., S.W.1
Empress, Johnstone	Clifton & Baird, Ltd., Johnstone, Scotland
Endeavour, London	Birch John, & Co., Ltd., 2, London Wall Buildings, E.C.
Enelectics, Westcent, London ..	English Electric Co., Ltd., Queen's House, 28, Kingsway, W.C.2
Energy, Hull	Marted & Knott, Ltd., Burnett Avenue, Hull
Energy, Motherwell	Chambers, Scott & Co., Ltd., Motherwell
Englema, Phone, London	Low Engineering Co., Ltd., 92A, High St., Kensington, W.8
Engine, Avc., London	Marshall, Sons, & Co., Ltd., 3, London Wall Buildings, London Wall, E.C.2
Engine, Leeds	Hunslet Engine Co., Ltd., Leeds
Engine, Sheffield	Yorkshire Engine Company, Ltd., Meadow Hall Works, Sheffield
Engineering, Chelmsford	Christy & Norris, Ltd., Chelmsford, England
Engineering, Westrand, London ..	"Engineering," Ltd., 35 & 36, Bedford St., Strand, W.C.
Engineers, Liverpool	Wilson, John H., & Co., Dock Road, Birkenhead.
Enorbalber, London	Northern Ball-Bearings, Ltd., 115, Great Portland St., W.1
Enocold, Birmingham	Enstone T. C., & Co., Evelyn Rd., Greet, Birmingham
Entropy, Newcastle-on-Tyne ..	Hooper & Weyman, Pilgrim House, Newcastle-on-Tyne
Epa, London	Alexander B. P., & Son, 306, High Holborn, W.C.
Epistolary, Vic., London	Humphreys & Glasgow, Ltd., 38, Victoria St., S.W.
Equestrian, London	Bradley Fulveriser Co., 37, Walbrook, E.C.
Ericsson, Fleet, London	British L.M. Ericsson Mfg. Co., Ltd., 60, Lincoln's Inn Fields, W.C.2
Escapable, Cent., London	Vickers-Petterson, Ltd., 75B, Queen Victoria St., E.C.4
Esnysee, Sewart, London	Escher, Wyss & Co., 20, Grosvenor Gardens, S.W.1
Etna, Leith	Davis & Primrose, Ltd., Bangor Rd., Leith, Edinburgh
Evans, Wolverhampton	Evans Joseph, & Sons (Wolverhampton), Ltd., Wolverhampton
Evaporate, Pollokshaws	Balghish A. & W., West of Scotland Boiler Wks., Pollokshaws, Glasgow

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Everite, Manchester	British Everite & Asbestillite Works, Ltd., 29, Peter St., Manchester
Everitt, Birmingham	Everitt, Allen & Sons, Ltd., Kingston Metal Works, Smethwick, Birmingham
Everything, Manchester	Kenyon, Alexander, & Co., Victoria Bridge, Manchester
Exactitude, Birmingham	Welsley Motors, Ltd., Adderley Park, Birmingham
Excavator, Leicester	Whitaker D., 1, Union St., Leicester
Exhaust, Romley	Davies & Metcalf, Ltd., Romley, Manchester
Expansion, Glasgow	Glasgow Railway Engineering Co., Ltd., Govan, Glasgow
Expansitas, London	Griffin Charles & Co., Ltd., Exeter St., Strand, W.C.
Extrusion, Birmingham	Belta Metal Co., Ltd., Dartmouth St., Birmingham
Fairhammer, Boston	United Hammer Co., Boston, Mass., U.S.A.
Falcon, Loughborough	Brush Electrical Engineering Co., Ltd., Loughborough, Leicestershire
Fawcett, Liverpool	Fawcett, Preston & Co., Ltd., Liverpool
Fellows, Cradley Heath	Fellows Bros., Ltd., Cradley Heath, Staffs.
Fenspen, Charles, London	Spens E. & F. N., Ltd., 57, Haymarket, S.W. 1
Ferranti, Hollinwood	Ferranti, Ltd., Hollinwood, Lancashire
Ferrost, Vic., London	Holst K., & Co., 1, Victoria St., S.W. 1
Fibrecoemen, Erith, Kent	British Fibrocement Works, Erith, Kent
File Forge, Kirkcaldy	File Forge Co., Ltd., Kirkcaldy, Scotland
Figeo-Haarlem	Figeo Ltd., Haarlem, Holland
Findlay, Motherwell	Findlay Alex., & Co., Ltd., Motherwell, near Glasgow
Fink, Glasgow	Oxy-Acetylene Welding Co., Ltd., 189, Finniston St., Glasgow
Firno, Glasgow	Firth Thos., & Sons, Ltd., 144, St. Vincent St., Glasgow
Firoda, London	Reddaway F., & Co., Ltd., 212, Shaftesbury Avenue, W.C.
Firth, Sheffield	Firth Thos., & Sons, Ltd., Norfolk Works, Sheffield
Fisher, Pershore	Fisher, Humphries & Co., Ltd., Atlas Works, Pershore
Flamma, London	Acetylene Corporation, Ltd., 49, Victoria St., S.W.
Fluminus, Manchester	Ashworth John, & Co., Trafford Park, Manchester
Forge, Darlington	Darlington Forge Co., Ltd., Albert Hill, Darlington
Forge, Dumbarton	Dennystown Forge Co., Dumbarton
Forge, Kirkstall	Kirkstall Forge Ltd., Leeds
Forgings, Glasgow	Gartherrrie Engineering & Forge Co., 50, Wellington St., Glasgow
Forgings, Tipton	Wright's Forge & Engineering Co., Ltd., Tipton, Staffordshire
Forward, Sheffield	Ward Thos. W., Ltd., Albion Works, Sheffield
Foster, Instrument, Letchworth	Foster Instrument Co., Letchworth, Herts.
Fosters, Wednesbury	Foster Brothers, Ltd., Wednesbury
Foundries, Derby	Fletcher Malleable Foundries, Ltd., Litchurch Lane, Derby
Foundry, Bolton	Entwistle & Gass, Ltd., Bolton
Foundry, Bradford	Bever, Dorling & Co., Ltd., Bowling Ironworks, Bradford
Foundry, Manchester	Wallwork Henry, & Co., Ltd., Manchester
Foundry, Walsall	Fleck Foundry Co., Ltd., Darlston Rd., Walsall
Fowler, Leeds	Fowler John, & Co. (Leeds), Ltd., Steam Plough Works, Leeds
France, Glasgow	France & Morgan, Whitefield Brass Works, Govan, Glasgow
Fraser, Arbroath	Fraser Douglas, & Sons, Ltd., Westburn Foundry, Arbroath
Fremo, Birmingham	Mountford Fredk., Ltd., Old Cross St., Birmingham
Fresco, Glasgow	Gas Power & By-Products Co., Ltd., 116, Hope St., Glasgow
Fribald, London	Baldwin Locomotive Works, The, 34, Victoria St., S.W.
Friction, Chapel-en-le-Frith	Ferede, Ltd., Sovereign Mills, Chapel-en-le-Frith
Frigfly, Holborn, London	West H. J., & Co., Ltd., 72-74, Grays Inn Road, W.C. 1
Fugal, Glasgow	Watson Laidlaw & Co., Ltd., 98, Dundas St. (South), Glasgow
Fuller Horney, London	Fuller, Horney, Sons & Cassell, 11, Billiter Square, E.C.
Furnaces, Llanelly	Beeson & Stevenson, Ltd., Llanelly, Carmarthenshire

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Gallant, Manchester	Wharton H., Ltd., Station Rd., Reddish, Stockport
Galloway, Manchester	Galloways Limited, Manchester
Galvanizer, Liverpool	Maxwell & Fage, 49, Sefton St., Liverpool
Gandah, Glasgow	Harvey G. & A., Ltd., Govan, Glasgow
Garrett, Leiston	Garrett R., & Sons, Ltd., Leiston Works, Suffolk
Gas, Leeds	Clayton, Son & Co., Ltd., Leeds City Boiler Works, Leeds
Gascagne, Manchester	Crossley Bros., Ltd., Openshaw, Manchester
Gasholder, Stockton-on-Tees	Ashmore, Benson, Pease & Co., Ltd., Stockton-on-Tees
Gastly, Levenshulme	Dowson & Mason Gas Plant Co., Ltd., Levenshulme, Manchester
Gasupreme, London	British Commercial Gas Association, 30, Grosvenor Gardens, S.W. 1
Gastoves, Warrington	Richmond Gas Stove & Motor Co., Ltd., Academy St., Warrington
Gearing, Huddersfield	Brown David, & Sons (Huddersfield) Ltd., Park Works, Lockwood, Huddersfield
Gears, Gateshead	Reay Gearworks, Ltd., Gateshead-on-Tyne
Gears, Hyde	Turbine Gears, Ltd., Hyde, Cheshire
Geologic, London	King B. T., 146A, Queen Victoria St., E.C. 4
Georgie, Manchester	St. George's Engineers, Ltd., Hulme Hall Rd., Manchester
Ghions, Ave., London	Ghion J., Finsbury Pavement House, Moorgate, E.C. 2
Gibbins, Birmingham	Gibbins, R. C., & Co., Berkley St., Birmingham
Gibbons, Lower-Gornal	Gibbons Bros., Ltd., Dibdale Works, Dudley, Worc.
Gilkes, Kendal	Gilbert Gilkes & Co., Ltd., Kendal, England
Gilman, Rotherwood, Birmingham	Gilman Frank, 9, Westwood Rd., Birmingham
Girder, Motherwell	Brandon Bridge-Building Co., Ltd., Brandon Works, Motherwell
Givrer, Glasgow	Weir G. & J., Ltd., Holm Foundry, Cathcart, Glasgow
Gladstone, Ltd., Stockton-on-Tees	Gladstone Ltd., Vulcan Rivet Works, Stockton-on-Tees
Glassen, Newton Heath	Butterworth Bros., Ltd., Newton Heath Glass Works, Manchester
Glenfield, Kilmarnock	Glenfield & Kennedy, Ltd., Kilmarnock, N.B.
Glenfine, Glasgow	Gleniffer Motors, Ltd., Anniesland, Glasgow
Globe, Derby	Roe & Harrison, Ltd., Derby
Goodacre, London	Goodacre Wm., & Sons, Ltd., Victoria Docks, E. 16
Goodwin, Ironfounder, Leicester ..	Goodwin, Barsby, & Co., Leicester
Gothic, Norwich	Laurence, Scott, & Co., Ltd., Norwich
Grace, Thrapston	Smith & Grace Screw Boss Pulley Co., Ltd., Thrapston
Grafton, Bedford	Grafton & Co., Bedford
Graftonlan, London	Grafton & Co., 120, Cannon St., E.C.
Gramercy, London	Le Bas Edward, & Co., Dock House, Billiter St., E.C.
Gresley, Manchester	Smith & Coventry, Ltd., Gresley Ironworks, Manchester
Grice, Birmingham	Grice, Grice & Son, Ltd., Nile St., Birmingham
Grieve, Motherwell	Grieve John, & Co., Motherwell, Scotland
Grispen, New York	Griscom-Russell Co., 95, West St., New York, U.S.A.
Guest, Rotherham	Guest & Chrimes, Rotherham
Gunnmetal, Glasgow	Pegler Bros. & Co. (Glasgow), Ltd., Anderston, Glasgow
Gunther, Oldham	Gunther W., & Sons, Central Works, Oldham
Gutapercha, Glasgow	Dick R. & J., Ltd., Greenhead Works, Glasgow
Gwynne, London	Gwynne's Engineering Co., Ltd., Hammersmith Ironworks, W.
Hacksaw, Blackburn	Baynes Charles, Ltd., Knuzden Brook, Blackburn
Hadfield, Sheffield	Hadfields Limited, Hecla Works, Sheffield
Halden, Manchester	Halden J., & Co., Ltd., 8, Albert Square, Manchester
Halefs, Tipton	Hale Thos. L., Ltd., Dudley Part, Tipton, Staffs.
Hall, Engineers, Peterborough ..	Hall J. P., & Sons, Ltd., Peterborough
Hallford, Dartford	Hall J. & B., Ltd., Dartford, Kent
Hallford, London	Hall J. & B., Ltd., 10, St. Swithin's Lane, E.C.
Hammer, Boston, U.S.A. ..	Beaudry & Co., Inc., Boston, Mass., U.S.A.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Harris, Birmingham	Harris F. W. (Birmingham), Ltd., 132, Hurst St., Birmingham
Hart, Blackburn	Hart Thomas, Ltd., Blackburn, England
Hartnell, Leeds	Hartnell, Wilson & Co., Ltd., Volt Works, Kirkstall Rd., Leeds
Hawkins & Co., Huddersfield	Hawkins W. T., & Co., Chapel Hill, Huddersfield
Heap, Ltd., Ashton-under-Lyne	Heap Jos. & Co., Ltd., Ashton-under-Lyne
Heenan, Manchester	Heenan & Froude, Ltd., 4, Chapel Walks, Manchester
Heenan, Worcester	Heenan & Froude, Ltd., Worcester Engineering Works, Worcester
Hellcal, Sewart, London	Citroën Car Co., Ltd., 22, Buckingham Gate, S.W.1
Henry Crowther, Cleckheaton	Crowther Henry, & Sons, Ltd., Cleckheaton, Yorkshire
Hexagon, Leeds	Kirby Banks Screw Co., Ltd., Leeds
Hick, Bolton	Hick, Hargreaves & Co., Ltd., Soho Works, Bolton
Higbs, Birmingham	Higgs Bros., Sand Pits, Birmingham
Highgate, Shettleston	Fallock, Macnaab & Highgate, Shettleston, Glasgow
Hilda, Birmingham	County Chemical Co., Ltd., Chemicco Works, Birmingham
Hindley, Bournemouth	Hindley E. S., & Sons, Bournemouth, Dorset
Hingley, Dudley	Hingley N., & Sons, Ltd., Netherton Iron Works, Dudley
Hobdell, London	Hobdell, Way & Co., Ltd., St. John's House, 124-5, Minories, E.
Hoffmann, Chelmsford	Hoffmann Manufacturing Co., Ltd., Chelmsford
Holsting, Glasgow	Carruthers J. H., & Co., Ltd., Polmadie Ironworks, Glasgow
Holcroft's, Bilston	Holcroft's Steel Foundry Co., Ltd., Bilston, South Staffordshire
Holding, Sheffield	Holding John, & Co., Ltd., Sheffield
Hollingdrake, Stockport	Hollingdrake H., & Son, Ltd., Princes St., Stockport
Holmes, Newcastle-on-Tyne	Holmes, J. H., & Co., Portland Rd., Newcastle-on-Tyne
Holophane, Vic., London	Holophane, Ltd., 12, Carteret St., Queen Anne's Gate, S.W.1
Holt & Willett, Cradley Heath	Holt & Willett, Lion Works, Cradley Heath
Hopkinson, Huddersfield	Hopkinson J., & Co., Ltd., Huddersfield
Hordern, Vesey St., Birmingham	Hordern & Mason, St. Mary's, Birmingham
Hornaby, Grantham	Ruston & Hornaby, Ltd., Spittlegate Iron Works, Grantham
Horsley, Birmingham	Cooke James, & Son, 8 and 9, Wrentham Street, Birmingham
Horsely, Tipton	Horsely Bridge & Engineering Co., Ltd., Tipton, Staffordshire
Horsepower, Cannon, London	Unbreakable Pulley & Mill Gearing Co., Ltd., 56, Cannon St., E.C.
Howden, Glasgow	Howden Overseas Trading Co., Ltd., 1051 St. Vincent St., Glasgow
Howden, Glasgow	Howden James, & Co., Scotland St., Glasgow
Howell, Sheffield	Howell & Co., Ltd., Brook Steel Works, Sheffield
Hudson, Coatbridge	Hudson Thomas, Ltd., Sheepfold Works, Coatbridge, N.B.
Humidity, Bradford	Davenport Engineering Co., Ltd., Harris St., Bradford
Huwood, Fen., London	Wood H., & Co., Ltd., 65, Fenchurch St., E.C.
Hydraulic, Leeds	Middleton Robt., Sheepshear Foundry, Leeds
Hydrological, Westrand, London	Warner Robert, & Co. (Engineers), Ltd., 14-16, Cockspur St., S.W.1
Hydrostatic, Phone, London	East Ferry Road Engineering Works Co., Ltd., Millwall, E
Hydroturbo, Wolverhampton	Rees Roturbo Manufacturing Company, Ltd., Wolverhampton, Eng.
Hygeartine, Phone, London	Hydraulic Gears, Ltd., Beaver Lane, Hammersmith, W. 6
Hyrodium, Sewart, London	Hyatt, Ltd., 56, Victoria St., S.W.1
Hysen, Nottingham	Smith Bros., & Co. (Hyson), Ltd., Nottingham
Igniter, Rugby	Lodge Bros. & Co., Rugby
Igranite, London	Igranite Electric Co., Ltd., 147, Queen Victoria St., E.C.
Imperial, Keighley	Keighley Gas & Oil Engine Co., Ltd., Imperial Works, Keighley
Impression, Newcastle-on-Tyne	United Metal Engraving Co., Ltd., 40, High Bridge, Newcastle-on-Tyne
Incombust, Sewart, London	Hamworthy Engineering Co., Ltd., 76, Victoria St., S.W.1
Indicator, Glasgow	Caledonian Telephone (New System) Co., Ltd., 62-64, Robertson St.,
Indicator, Manchester	Kirk Wheatley, Price & Co., Albert Square, Manchester [Glasgow]

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Indices, London	Kirk Wheatley, Price & Co., 46, Watling St., E.C.
Induction, Birmingham	Ellison George, Perry Bar, Birmingham
Ingenuetic, New York	International General Electric Co., Schenectady, New York, U.S.A.
Ingenuity, Glasgow	Crockatt W. & Sons, Ltd., 64, Darnley St., Glasgow
Ingenuity, Salford	Tangent Tool Engineering Co., Ltd., Keynsham, Somerset
Ingersoll, London	Ingersoll-Rand Co., Ltd., 165, Queen Victoria Street, E.C.
Ingot, Briton Ferry	Briton Ferry Steel Co., Ltd., Briton Ferry, Glamorganshire
Ingot, Wishaw	Glasgow Iron & Steel Co., Ltd., Wishaw Iron & Steel Works, Wishaw
Inspect, London	Hall B. J., & Co., Ltd., Chalfont House, Gt. Peter St., S.W.
Insulator, Prescott	British Insulated & Helsby Cables, Ltd., Prescott, Lancashire
Integral, Holborn, London	Columbia Steel & Engineering Co., Ltd., 334-6, Bank Chambers, 349, High Holborn, W.C. 1
Intensifier, London	Middleton Robt., 22, Martin's Lane, Cannon St., E.C.
Intersection, London	Piggott Thos., & Co., Ltd., 63, Queen Victoria St., E.C.
Inventions, Eastbourne	Howard Pneumatic Engineering Co., Ltd., Eastbourne
Iron, Calnecross	Dudbridge Ironworks, Ltd., Stroud, Gloucestershire
Iron, Wednesbury	Wesson W., & Co., Ltd., Moxley, Wednesbury
Ironclad, Manchester	Lancashire Dynamo & Motor Co., Ltd., Trafford Park, Manchester
Ironfisted, Vic., London	Vermet, Ch., Valere Mabilie & R. Pelgrims, 83, Victoria St., S.W. 1
Ironheads, London	Nescutt, Walter P. Ltd., 8, White St., Moorfields, E.C.
Ironware, Piccy., London	Millwall Engineering Co., Ltd., 21, Panton St., S.W. 1
Ironworks, Butterley	Butterley Co., Ltd., Butterley
Ironworks, Lowmoor, Yorkshire	Heath Robert, & Low Moor, Ltd., Bradford, Yorkshire
Irony, Bolton	Booth John, & Sons, Hulton Steel Works, Bolton
Isler, London	Isler C., & Co., Ltd., Bear Lane, Southwark St., S.E. 1
Jackson, Claycross	Clay Cross Co., Clay Cross, near Chesterfield
Jacksons, Manchester	Jackson P. R., & Co., Ltd., Salford Rolling Mills, Manchester
Jacobchuck, Hartford	Jacobs Manufacturing Co., Hartford, Conn., U.S.A.
James Keith, London	Keith James, & Blackman Co., Ltd., 27, Farringdon Avenue, E.C.
Jamsler, Schaffhouse	Amster Alfred J., & Co., Schaffhouse, Switzerland
Jardine, Nottingham	Jardine John, Ltd., Deering St., Nottingham
Jeffrey, Columbus	Jeffrey Manufacturing Co., 910, North Fourth St., Columbus, Ohio,
Jenkins, Retford	Jenkins W. J., & Co., Ltd., Beehive Works, Retford, Notts. [U.S.A.]
Jenkins, Rotherham	Jenkins R., & Co., Ltd., Rotherham, Eng.
Jenortea, Phone, London	Böving & Co., Ltd., 56, Kingsway, W.C. 2
Jessops, Sheffield	Jessop W., & Sons, Ltd., Brightside Works, Sheffield
Joining, Ardrossan	Metallic Manufacturing Co., Ltd., Ardrossan
Jonas, Sheffield	Jonas & Colver, Ltd., Sheffield
June, Charlton, London	Johnson & Phillips, Ltd., Charlton, S.E. 7
Kalamazet, Birmingham	Kalamazoo, Ltd., Kalamazoo Works, Northfield, Birmingham
Kalker, Coventry	Kalker E., & Co., Much Park St., Coventry
Kearns, Altrincham	Kearns H. W., & Co., Ltd., Broadheath, near Manchester
Keay, Birmingham	Keay E. C. & J., Ltd., Corporation St., Birmingham
Kelvin, Estrand, London	Armstrongs & Main, Ltd., Australia House, Strand, W.C.
Kentobla, Westcent, London	Kent George, Ltd., 199, High Holborn, W.C. 1
Kenyon, Dukinfield	Kenyon Wm. & Sons, Ltd., Dukinfield, Manchester
Keystone, Glasgow	Positive Lock Washer Co., 118-122, James Watt St., Glasgow
Khartoum, Cent., London	United States Rubber Co., Ltd., 47 & 48, Farringdon St., E.C. 4
Kilbowie, Holb., London	Tullis D. & J., Ltd., Sardinia House, Kingsway, W.C. 2
Kilbrinock, Ave., London	Kilmarneock Engineering Co., Ltd., 10, Coleman St., E.C. 2
Koehring, Milwaukee	Koehring Company, Milwaukee, Wis., U.S.A.
Kvaerner, Kristiania	A/S Kvaerner Brug, Kristiania, Norway
Kynech, Birmingham	Kynech, Ltd., Lion Works, Witton, Birmingham

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Lakeval, Sewest, London	Lake Philip, & Co., 66, Victoria St., Westminster, S.W.1
Laminated, Glasgow	Henry James, Laminated Leather Works, Bridgeton, Glasgow
Land, Grantham	Grantham Boller & Crank Co., Ltd., Grantham
Lang, Johnstone	Lang John, & Sons, Johnstone, N.B.
Lapweld, Glasgow	Stewarts & Lloyds, Ltd., 41, Oswald St., Glasgow
Lathes, Coventry	Herbert Alfred, Ltd., Coventry
Lathe, Halifax	Smith, Barker & Wilson, Ltd., Halifax
Lathe, Shipley	Barker, Spink, Lease & Co., Rosse Works, Shipley, Yorks
Lathes, Birmingham	Taylor Charles (Birmingham), Ltd., Bartholomew Square, Birmingham
Lathes, Felling	Noble & Lund, Ltd., Felling, near Newcastle-on-Tyne
Lathes, Hyde	Macnab John (Machinery), Ltd., Mary St., Hyde
Lathes, Stoughton	Drummond Brothers, Ltd., Engel Works, near Guildford
Lathcock, Strat., London ..	Holbrook & Sons, 44, Martin St., Stratford, E.15
Leathers Company, Altrincham ..	Leathers Company (Altrincham), Limited, Altrincham, Manchester
Leclar, Leeds	Leeds Electrical Construction Co., Ltd., Charnmouth St., Leeds
Lees, Hollinwood	Lees T. & R., Ltd., Hollinwood, near Manchester
Lees, Millwall	Brown, Lemer & Co. (London), Ltd., Poplar, B.
Leorum, Hammer, London ..	Rosser & Russell
Leymeters, Leyland	Leyland Motors, Ltd., Leyland, Lancashire
Lidgerwood, London	Lidgerwood Ltd., Friars House, New Broad St., E.C.
Lifter, Coventry	Bretts Patent Lifter Co., Ltd., Coventry
Lifting, Leicester	Taylor & Hubbard, Leicester
Lifting, Stanningley	Butler Samuel, & Co., Ltd., Stanningley, near Leeds
Lighting, Stafford	Universal Grinding Wheel Co., Ltd., Stafford
Lilleshall, Oakengates	Lilleshall Co., Ltd., Oakengates, Shropshire
Linking, Battersea, London ..	Hunt Thomas, & Sons, Bridge Rd. West, Battersea, S.W.11
Lionelle, London	Walker James, & Co., Ltd., Lion Works, Garford St., Poplar, E.
Llewellyns, Bristol	Llewellyns Machine Co., Bristol, England
Lloyds, Birmingham	Stewarts & Lloyds, Ltd., Broad St. Chambers, Birmingham
Loebnitz, Renfrew	Loebnitz & Co., Ltd., Renfrew, Scotland
Lockencas, London	Kaye Jos., & Sons, Ltd., 93, High Holborn, W.C.
Lockinst, London	Bayliss, Jones & Bayliss, Ltd., 139 & 141, Cannon St., E.C.
Loco, Bristol	Avonside Engine Co., Ltd., Bristol
Loco, Glasgow	North British Locomotive Co., Ltd., Administration Building, 110, Flemington St., Springburn, Glasgow
Loco, Gorton	Beyer, Peacock & Co., Ltd., Gorton Foundry, Manchester
Loco, Leeds	Hudswell, Clarke & Co., Ltd., Railway Foundry, Leeds
Locomotive, Newcastle	Hawthorn R. & W. Leslie & Co., Ltd., Newcastle-on-Tyne
Locusuper, Phone, London ..	Superheater Corporation, Ltd., 14, New Burlington St., W.1
Logic, Birmingham	McGowan, Wild & Co., Hurst St., Birmingham
Longmans, London	Longmans, Green & Co., 39, Paternoster Row, E.C.
Lanken, London	Lanken Company, Ltd., 35, Great Dover St., S.E.
Lustrose, Phone, London ..	Graphite Products, Ltd., 218-220, Queen's Rd., Battersea, S.W.
Lynceag, London	Contraflo Condenser & Kinetic Air Pump Co., Ltd., 3, Central Buildings, Westminster, S.W.
Lysaght, Bristol	Lysaght John, Ltd., St. Vincent Ironworks, Bristol
Machinery, Birmingham	Hands John, & Sons, Ltd., Cardigan Works, Birmingham
Machinery, Chapel St., Stalybridge ..	Maycock, Alex. W., Chapel St., Stalybridge
McKeehan, Birmingham	McKeehan Brothers, Ltd., Rotton Park St., Birmingham
McKisig, London	McKenzie & McHard, Ltd., 33, Victoria St., S.W.
MacLellan, Glasgow	MacLellan P. & W., Ltd., 129, Irongate, Glasgow
MacLellan, London	MacLellan P. & W., Ltd., 10, Princes St., S.W.1

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Macmarsh, New York	McClintic-Marshall Products Co., 50, Church St., New York, U.S.A.
Macnab, Woodley	Follock & Macnab, Ltd., Bredbury, Stockport
Macnail, Glasgow	McNell C., Ltd., Kinning Park Hydraulic Forge, Glasgow
Macnole, Glasgow	Harvey Engineering Co., Ltd., Scotland St. Engine Works, Glasgow
McRoble, Glasgow	McRoble John, & Sons, 94, Elliott St., Glasgow
Magnet, Manchester	Electrometers, Ltd., Openshaw, Manchester
Magnolier, London	Magnolia Anti-Friction Metal Co. of Great Britain, Ltd., 49, Queen Victoria St., E.C.
Malden, Hyde	Malden & Co., Ltd., Hyde, Cheshire
Makepeace, London	British Steel & Iron Exporters, Ltd., 22 & 23, Laurence Pountney Lane, E.C.4
Manlove, London	Manlove, Allott & Co., Ltd., 41 & 42, Parliament St., S.W.
Manlove, Nottingham	Manlove, Allott & Co., Ltd., Nottingham
Manning, Leeds	Manning, Wardle & Co., Ltd., Boyne Engine Works, Leeds
Markt, Smith, London	Markt & Co. (London), Ltd., 98 & 100, Clerkenwell Rd., E.C.1
Mars, Sheffield	Marsden Charles, & Sons, Ltd., 32, Holly St., Sheffield
Marsden, Leeds	Marsden H. R., Ltd., Soho Foundry, Leeds
Marshall, Gainsborough	Marshall, Sons & Co., Ltd., Gainsborough
Masonica, Boston, U.S.A.	Mason Regulator Co., Boston, Mass., U.S.A.
Massey, Openshaw	Massey B. & S., Ltd., Openshaw, Manchester
Matterson, Shawclough, Rochdale	Matterson, Ltd., Shawclough, Rochdale
Meldrum, Altrincham	Meldrums Ltd., Timperley, near Manchester
Melns, London	Kerr, Stuart & Co., Ltd., 5, Broad St. Place, E.C.
Mellifield, Yoker	Bull's Metal and Melfold Co., Ltd., Yoker, near Glasgow
Merryweather, London	Merryweather & Sons, Ltd., 63, Long Acre, W.C.
Mesmerke, Vic., London	Firth Thos., & Sons, Ltd., 8, The Sanctuary, Westminster, S.W.
Metalbles, London	Barnard, H. B. & Sons, Glyn St., Vauxhall, S.E.11
Metallic, Bradford	United States Metallic Packing Co., Ltd., Soho Works, Bradford
Metallic, Glasgow	Murray, McVinnie & Co., Ltd., Mavisbank Quay, Glasgow
Metallics, Manchester	Johnson Richard, Clapham & Morris, Ltd., Lever St., Manchester
Metalose, Wood, London	Interlock Metal Hose Co., River Park Rd., Wood Green, N.
Method, Birmingham	Player W. & J., Birmingham
Metrovick, Manchester	Metropolitan-Vickers Electrical Co., Ltd., Trafford Park, Manchester
Michbeare, Vic., London	Mitchell Bearings, Ltd., 3, Central Buildings, Westminster, S.W.1
Micontraco, Cent., London	Mitchell Conveyor & Transporter Co., Ltd., Atlantic House, 45, Holborn Viaduct, E.C.1
Mildsteel, Hay Mills	Mild Steel Castings, Ltd., Tyseley, Birmingham
Mirreles, Glasgow	Mirreles Watson Co., Ltd., Scotland St., Glasgow
Modernize, Manchester	Clyne Engineering Co., Ltd., 94, Market St., Manchester
Moorlands Eng. Co., Ltd., Leek	Moorlands Engineering Co., Ltd., Leek, Staffs.
Motor, Sheffield	Davy Brothers, Ltd., Sheffield
Motor, Bedford	Motor Ball & Tram Car Co., Simplex Works, Bedford
Multitube, Annan	Cochran & Co., Annan, Ltd., Annan, N.B.
Mumford, Colchester	Mumford A. G., Ltd., Culver St. Engineering Works, Colchester
Muntz, Westbromwich	Muntz P. H., & Co., Ltd., Alexandra Works, West Bromwich
National, Ashton-under-Lyne	National Gas Engine Co., Ltd., Ashton-under-Lyne, Manchester
National, Manchester	National Boiler & General Insurance Co., Ltd., St. Mary's Parsonage, Manchester
Nautical, Glasgow	Mechans Limited, Scotstoun Iron Works, Glasgow
Necoloid, Ave., London	Necol Industrial Collodions, Ltd., 62, London Wall, E.C.2
Negretti, London	Negretti & Zambra, 38, Holborn Viaduct, E.C.
Nelson, Motherwell	Hurst, Nelson & Co., Ltd., Glasgow Rolling Stock & Plant Works, Motherwell

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Newalls, Newcastle-on-Tyne	Newalls Insulation Co., Ltd., Mosley St., Newcastle-on-Tyne
Newbold, London	Newbold, Walter & Co., Ltd., 11-13, Huggin Lane, Queen Victoria St., E.C.4
Newcrane	Northern Crane Works, Ltd., Walkerville, Ontario, Canada
Newcrane	Northern Engineering Works, Detroit, Mich., U.S.A.
Newz, Wallsend !	North-Eastern Marine Engineering Co., Ltd., Wallsend-on-Tyne
Newton, Sheffield	Newton, Chambers & Co., Ltd., Thornclyffe Ironworks, near Sheffield
Nichols, Engineers, Gateshead ..	Nichols Pump & Engineering Co., Ltd. (late Nichols Bros.), Northallerton, Yorks.
Nilesco, New York	Niles-Bement-Pond Co., 111, Broadway, New York, U.S.A.
Niliacus, London	Niles-Bement-Pond Co., 23 & 25, Victoria St., Westminster, S.W.
Nonce, Phone, London	Zwicky Pump Co., Ltd., 284, Salisbury House, London Wall, E.C.2
Nuprimover, Phone, London ..	Still Engine Co., 7, Princes St., S.W.1
Oakey, London	Oakey John, & Sons, Ltd., Westminster Bridge Rd., S.B.
Oathie, Rand, London	Bath T., & Co., 18, Savoy St., W.C.2
Ocean, Sheffield	Standard Piston Ring & Engineering Co., Ltd., Premier Works, Dou Rd., Sheffield
Oceanilla, Westrand, London ..	Stone J., & Co., Ltd., Oceanic House, 1A, Cockspur St., S.W. 1
Olding, Vic., London	Acheson E. G., Ltd., 40, Wood St., S.W. 1
Oldens, Birmingham	Youngs, Ryland St. Works, Birmingham
Oetoomachi, Vic., London ..	Coats Machine Tool Company, Ltd., 14, Palmer St., Westminster, S.W. 2
Opedidoe, Estrand, London ..	Churchill Chas., & Co., Ltd., 9 to 15, Leonard St., Finsbury, E.C.
Orders, Camnen, London ..	Electromotors Ltd., 49, Queen Victoria St., E.C. 4
Ordinance, Keighley	Dickinson Machine Tool Co., Ltd. Devonshire Works, Keighley
Original, Manchester	Cameron John, Ltd., Oldfield Rd. Ironworks, Salford
Orilases, Westcent., London ..	Watt Motors, Ltd., Premier House, 150, Southampton Row, W.C.1
Osborn, Sheffield	Osborn Samuel, & Co., Ltd., Clyde Steel Works, Sheffield
Outfitter, Glasgow	Paisleys Ltd., 72-96, Jamaica St., Glasgow
Outil, Oerlikon	Swiss Machine Tool Works, Oerlikon, near Zurich, Switzerland
Pagefield, Wigan	Walker Bros. (Wigan), Ltd., Pagefield Iron Works, Wigan
Parker, Derby	Parker Foundry Co., Ltd., Derby
Palapoco, London	Jenkins Bros., Ltd., 6, Great Queen St., W.C.2
Pattens, Bradford	A 1 Manufacturing Co., Sunbridge Rd., Bradford
Paul, Dumbarton	Paul Matthew, & Co., Ltd., Levenford Works, Dumbarton
Payman, Colchester	Davey, Payman & Co., Ltd., Standard Works, Colchester
Payman, Phone, London	Davey, Payman & Co., Ltd., Central House, Kingsway, W.C. 2
Pearson, Dublin	Smith & Pearson, Ltd., Newcomen Ironworks, Dublin
Peckett, Bristol	Peckett & Sons, Ltd., Atlas Locomotive Works, Bristol
Pedestal, Glasgow	Govan Shifting & Engineering Co., Ltd., Govan, Glasgow
Pemetrancy, Holborn, London ..	Butcher Henry, 63 & 64, Chancery Lane, W.C. 2
Penetration, London	Wright's Forge & Engineering Co., Ltd., 57, Bishopsgate, B.C.
Penman, Glasgow	Penman & Co., Ltd., 377, Dalmarnock Rd., Glasgow
Penstock, Langley, Worcs. ..	Ham, Baker & Co., Ltd., Langley Green, Birmingham
Persistent, Liverpool	Everitt & Co., Ltd., 40, Chapel St., Liverpool
Petropump, Baker, London ..	Bowson & Mason Gas Plant Co., Ltd., 3, Manchester St., W.1
Potters, Yeovil	Potters, Ltd., Nautilus Works, Yeovil
Phoenix, Paisley	Fleming & Ferguson, Ltd., Paisley, near Glasgow
Photania, Cent., London	Photographia, Ltd., 62, Cheapside, E.C.2
Pickering, Wislaw	Pickering R. Y., & Co., Ltd., Wislaw, near Glasgow
Pickles, Engineers, Hebden Bridge	Pickles, John & Son (Engineers), Ltd., Hebden Bridge, Yorks.
Pickwick, Rand, London	Chapman & Hall, Ltd., 11, Henrietta St., W.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Pinlons, Birmingham	St. George's Engineering Co., Brearley St., Birmingham
Piston, Sheffield	Lockwood & Carlisle, Ltd., Eagle Foundry, Sheffield
Pistons, Manchester	Lancaster & Tonge, Ltd., Pendleton, near Manchester
Pistorings, Coventry	British Piston Ring Co., Ltd., Holbrook Lane, Coventry
Planers, Halifax	Bedman C., & Sons, Ltd., Kingston, Halifax
Planetary, Phone, London	Popes Electric Lamp Co., Ltd., Hythe Rd., Willesden, N.W.10
Platt, Wednesbury	Platt Samuel, Ltd., Wednesbury
Plenty, Newbury	Plenty & Son, Ltd., Newbury, Berkshire
Plungers, Birmingham	Hollings & Guest, Ltd., Thimble Mill Lane, Birmingham
Pneuclete, Sewart, London	Stevens Clement, Pneumatic Engineering Co., Ltd., 28, Spenser St., Buckingham Gate, S.W. 1
Pneumatoid, Vic., London	Globe Pneumatic Engineering Co., Ltd., 1, Victoria St., S.W.
Polar, Liverpool	Liverpool Refrigerating Co., Ltd., Colonial House, Liverpool
Polaris, London	Heath & Co., Ltd., New Eltham, S.E.9
Pollish, Manchester	Hill W. W., Son & Wallace Ltd., Elton St., Broughton, Manchester
Polyphase, London	Witten-Kraemer Electric Tool & Molt Works, Witton, Birmingham
Ponlex, London	Pontifex & Wood, Ltd., 175-177, Salisbury House, London Wall, E.C.
Possil, Glasgow	Smith Hugh, & Co., Ltd., Possil Engine Works, Glasgow
Potential, Newcastle-on-Tyne	Jennings Edward J., West Walls, Newcastle-on-Tyne
Pott, Motherwell	Pott, Cassels & Williamson, Motherwell, near Glasgow
Power, Cathcart	Macfarlane Engineering Co., Ltd., Netherlee Rd., Cathcart
Fratchitt, Engineers, Carlisle	Fratchitt Brothers, Denton Ironworks, Carlisle
Precision, Coventry	Morton & Weaver, Cox St., Coventry
Precision Mytholmroyd	Crossley H. P., & Ackroyd, Mytholmroyd, Yorks
Precooler, Shalford	Premier Cooler & Engineering Co., Ltd., Station Works, Shalford, nr. Guildford, Surrey
Prehension, Oldham	British Hole-Shaw Patent Clutch Co., Ltd., Oldham, England
Premier, Sandiacre	Premier Gas Engine Co., Ltd., Sandiacre, Nottingham
Press, Leeds	Rice & Co. (Leeds), Ltd., Neville Works, Elland Rd., Leeds
Pressure, Glasgow	Cockburn A., & Co., Gateside St., Glasgow
Pressure, Liverpool	Campbell & Isherwood, Ltd., Bootle, Nr. Liverpool
Priestman, Hull	Priestman Bros., Ltd., Holderness Foundry, Hull
Priestman, London	Priestman Bros., Ltd., 28, Victoria St., S.W.1
Priniceps, Sheffield	Priniceps & Co., Sheffield
Prinicipum, Westcent, London	Wellman Smith Owen Engineering Corporation, Ltd., King's House, Kingsway, W.C. 2
Printeries, Cent., London ..	Scott, Greenwood & Son, 8, Broadway, Ludgate Hill, E.C.2
Processes, Westcent, London	Electro-Metals, Ltd., Imperial Buildings, Kingsway, W.C.
Proctor, Burnley	Proctor James, Ltd., Burnley, Lancashire
Prodigious, Glasgow	Mavor & Coulson, Ltd., 47, Broad St., Mile End, Glasgow
Proells, London	Engineering Supplies, Ltd., 11, Queen Victoria St., E.C.4
Profile, Coventry	Webster & Bennett, Ltd., Foleshill, Coventry
Provauside, Glasgow	Stevens A. & P., 181, St. James' Rd., Glasgow
Publish, Westrand, London	MacMillan & Co., Ltd., St. Martin's St., W.C.2
Pullen, Phone, London	Pullen F. A., & Co., Harleyford Rd., Vauxhall, S.E.11
Pulleys, Birstall	Douglas, Lawson & Co., Birstall, near Leeds
Pulsometer, London	Pulsometer Engineering Co., Ltd., 11, Tothill St., S.W.
Pulsometer, Reading	Pulsometer Engineering Co., Ltd., Nine Elms Ironworks, Reading, [Berks.]
Pulsometer, Glasgow	Pulsometer Engineering Co., 160, Vincent St., Glasgow
Pulsometer, Leeds	Pulsometer Engineering Co., Ltd., 15, King St., Leeds
Pulsometer, Liverpool	Pulsometer Engineering Co., Ltd., 2, Strand St., Liverpool
Pulsometer, Manchester	Pulsometer Engineering Co., Ltd., 206, Corn Exchange Buildings, Manchester
Pump, Bedford	Allen W. H., Sons & Co., Ltd., Queen's Engineering Works, Bedford
Pump, London	Allen W. H., Sons & Co., Ltd., 1, Queen Anne's Chambers, S.W.
Pumping, Westcent, London	Worthington Pump Co., Ltd., Queen's House, Kingsway, W.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Pumps, Clydebank	Dawson & Downie, Ltd., Elgin Works, Clydebank, Scotland
Pumps, Hamilton	Downton, J., & Co., Hamilton, Scotland
Pumps, Manchester	Peara F., & Co., Ltd., West Gorton, Manchester
Pumps, Rodley	Leeds Engineering & Hydraulic Co., Ltd., Rodley, Nr. Leeds
Pumps, Stoke-on-Trent	Shore Thos., & Sons, Ltd., Etruria, Stoke-on-Trent
Quality, Worcester	Hardy & Padmore, Ltd., Worcester Foundry, Worcester
Quartz, Accrington	Guthrie & Co., St. James's Chambers, Accrington
Racocine, Pheno, London	Russell Oil Co., 36, Short Rd., Stratford, E. 15
Rails, Widnes	White Rd., & Sons, Widnes, Lancs.
Ramsay, Birmingham	Ramsay & Marshall, Ltd., Birmingham
Ramsford, Leeds	Cawood G. R. & Co., 4, South Parade, Leeds
Ramsomace, Sowerth, London	Ramsomes Machinery Co. (1920), Ltd., 14 & 16, Grosvenor Gardens, S.W. 1
Ransome, Cent., London	Ransome A., & Co., Ltd., 63, Queen Victoria St., B.C.
Ransome, Newark	Ransome A., & Co., Ltd., Stanley Works, Newark-on-Trent
Ransomes, Ipswich	Ransomes, Sims & Jefferies, Ltd., Orwell Works, Ipswich
Rapidising, London	Davis B. J., Great Eastern Rd., Stratford, E.
Ratchet, Glasgow	Davis Bros., Ltd., 57, Hope St., Glasgow
Rawerth, Vic., London	Rawerth, John E. & Moss, 75, Victoria St., S.W. 1
Readers, Nottingham	Reader B., & Sons, Phoenix Works, Cremorne St., Nottingham
Reavell, Ipswich	Reavell & Co., Ltd., B. Dept., Ranelagh Works, Ipswich
Recording, Manchester	Len Recorder Co., Ltd., 28, Deansgate, Manchester
Reddaway, London	Reddaway F., & Co., Ltd., 50 & 51, Lime St., B.C.
Redlie, Edinburgh	Calders, Ltd., 10A, George St., Edinburgh
Redpath, Edinburgh	Redpath, Brown & Co., Ltd., 2, St. Andrew Square, Edinburgh
Reducing, Glasgow	Auld David, & Sons, Ltd., Whitevale Foundry, Glasgow
Reid, Linwood	Reid Gear Co., Linwood, near Paisley
Rekrap, Birmingham	Precision Gauges, Ltd., Wrentham St., Birmingham
Repairs, Immingham Dock Station	Hummer Graving Dock & Engineering Co., Ltd., King's Dock, Immingham
Repeat, Birmingham	Incaudescant Heat Co., Ltd., British Mills, Smethwick, Birmingham
Repsor, Portsmouth	Vesper & Co., Ltd., Broad St., Portsmouth
Revolving, Birmingham	Timbrell & Wright Machine Tool & Engineering Co., Ltd., Birmingham
Reynolds, Hebburn	Reynolds A., & Co., Ltd., Hebburn-on-Tyne
Rheostat, Glasgow	Malcolm & Allan, Ltd., 499, Eglinton St., Glasgow
Rhodes, Hartford	Rhodes Manufacturing Co., Hartford, Conn., U.S.A.
Richards, Wednesbury	Richards Edwin, & Sons, Ltd., Portway Works, Wednesbury
Richardsons, Hartlepool	Richardsons, Westgarth & Co., Ltd., Hartlepool Engine Works, [Hartlepool]
Ridol, Glasgow	Ridol, John H., Ltd., 40, St. Enoch Square, Glasgow
Riveter, Leeds	Berry Henry, & Co., Ltd., Croydon Works, Leeds
Robey, Lincoln	Robey & Co., Ltd., Lincoln
Robinson, Rochdale	Robinson T., & Son, Ltd., Rochdale
Robson, Shipley	Robson John (Shipley), Ltd., Shipley, Yorkshire
Roc, West Drayton	Power Plant Co., Ltd., West Drayton, Middlesex
Rockot, Darlington	Stephenson Robert, & Co., Ltd., Darlington
Roebuck, Pheno, London	Buck & Hickman, Ltd., 214, Whitechapel Rd., E. 1
Ronksley, Armsley	Johnson Wm., & Sons (Leeds), Ltd., Armsley, Leeds
Rose, Hull	Rose, Down & Thompson, Ltd., Old Foundry, Hull
Rotherwood, Birmingham	Gilman Frank, Wilders Drive, Warwick Rd., Birmingham
Rowan, Glasgow	Rowan David, & Co., 231, Elliot St., Glasgow
Rowmen, Cent., London	Rowson, Brew & Clydesdale, Ltd., 225, Upper Thames St., E.C.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Ruspoli, London	Smith S., & Sons, Ltd., 6, Grand Hotel Buildings, Trafalgar Sq., W.
Ruston, Cannon, London ..	Ruston & Hornsby, Ltd., 46, Queen Victoria St., E.C. 4
Russell, Motherwell ..	Russell G., & Co., Ltd., Motherwell, N.B.
Russell's, Iron Founders, Leicester	Russell S., & Sons, Bath Lane, Leicester
Ruston, Lincoln	Ruston & Hornsby, Ltd., Sheaf Iron Works, Lincoln
Ryson, Chicago	Ryerson Joseph T., & Son, Chicago, Ill., U.S.A.
Salterns, Ltd., Lilliput ..	Salterns, Ltd., Parkstone, Dorset
Salters, West Bromwich ..	Salter, Geo. & Co., Ltd., West Bromwich
Sandon, Patricroft ..	Browett Lindley, & Co., Ltd., Patricroft, Manchester
Sands, Colwick, Nottingham	Sands Geo., & Son, Ltd., Colwick, Nottingham
Sandycroft, Hawarden ..	Sandycroft Limited, near Chester
Sanforstead, Barking ..	Sanders & Forster, Ltd., Thames Works, Barking
Sankey, Wellington, Salop	Sankey Joseph, & Sons, Ltd., Wellington, Shropshire
Satisfactory, Liverpool ..	Cole Henry A., & Co., Ltd., Coronet Works, Liverpool
Saturation, New West, London	White, Jacoby & Co., Ltd., Bayham Place, Camden Town, N.W. 1
Sawa, Birmingham ..	Brooke Tool Manufacturing Co., Ltd., Warwick Rd., Greet, Birmingham
Scholarly, London ..	Arnold Edward, 41 & 43, Maddox St., W.
Scotubecco, Glasgow ..	Scottish Tube Co., Ltd., 34, Robertson Street, Glasgow
Scow, Rutherglen ..	Chalmers Wm., & Co., Ltd., Rutherglen, Scotland
Scravvan, Vaux, London ..	Buyers of Scrap Metal, Ltd., 23, King St., E.C. 2
Screened, Glasgow ..	Consland A., & Son, 3, Mitchell's St., Glasgow
Screens, Bury St. Edmunds	Boby, Robert, Ltd., Bury St. Edmunds, Suffolk
Screens, Lincoln ..	Penney & Porter (Engineers), Ltd., City Iron & Steel Works, Lincoln
Screw, Preston ..	Friedenthal, Ltd., River Engine Works, Preston
Scythas, Cent., London ..	Skinner Chuck Co., 139, Queen Victoria St., E.C. 4
Seafeld, Manchester ..	Steam Cylinder Lubricator Co., Ltd., Gordon Wks., Lower Broughton, [Manchester]
Seagers, Dartford ..	Seagers, Ltd., Dartford
Sections, Leeds ..	Dunlop & Ranken, Ltd., 9, Park Lane, Leeds
Segment, Liverpool ..	Brundrit Joseph, 14, Water St., Liverpool
Shanks, Johnstone ..	Shanks Thomas, & Co., Union Ironworks, Johnstone, near Glasgow
Shephard ..	Shephard Electric Crane & Hoist Co., Montour Falls, N.Y., U.S.A.
Shiplumb, Glasgow ..	Houston J. W., & Co., Partick Cross, Glasgow
Shipyards, Troon ..	Allan Shipbuilding Co., Ltd., Troon, N.B.
Shorelust, New York ..	Shore Instrument & Mfg. Co., Van Wyck Av. & Carll St., Jamaica, New York, U.S.A.
Siebe, Lamb., London ..	Siebe, Gorman & Co., Ltd., Neptune Works, London, S.E.
Siemens, Woolwich ..	Siemens Bros. & Co., Ltd., Woolwich, London, S.E. 18
Sightseer, London ..	Stone J. B., & Co., Ltd., 135, Finsbury Pavement, E.C.
Silently, Vic., London ..	Parsons C. A., & Co., Ltd., 56, Victoria St., S.W.
Simcar, Manchester ..	Simon-Carves, Ltd., 20, Mount St., Manchester
Simons, Renfrew ..	Simons W., & Co., Ltd., Renfrew, Scotland
Simpson, Halifax ..	Darque Brothers, Ltd., Simpson Works, Halifax, England
Sirocco, Belfast ..	Davidson & Co., Ltd., Sirocco Engineering Works, Belfast
Sisson, Gloucester ..	Sisson W., & Co., Ltd., Gloucester
Skefko, Luton ..	Skefko Ball Bearing Co., Ltd., Skefko Works, Luton, Beds.
Sleeper, Worcester, Mass.	Sleeper & Hartley (Inc.), Worcester, Mass., U.S.A.
Smedleys, Belper ..	Smedley Bros., Ltd., Belper, Derbyshire
Smith, Rodley ..	Smith Thos., & Sons (Rodley), Ltd., Steam and Electric Crane Works, Rodley, near Leeds
Smith's, Nottingham ..	Smith Sydney, & Sons (Nottingham), Ltd., Nottingham
Sogenique, Cent., London ..	Société Générale d'Instruments de Physique, 95, Queen Victoria St.,
Soho, Paisley ..	Campbell & Calderwood, Soho Works, Paisley, Scotland [E.C. 4]
Sokalsig, London ..	Sokal S., 1, Great James St., Bedford Row, W.C. 1

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Solenoid, Glasgow	Phoenix Electrical Co., Ltd., 32, Broomielaw, Glasgow
Somers, Halesowen	Somers, Walter, Ltd., Halesowen
Soprometal, Paris	Société de Produits Métallurgiques, 148, Boulevard Haussmann, Paris (8e)
Sphere, Birmingham	Ridge-Whitworth, Ltd., Sparkhill, Birmingham
Spherical, Newton Heath ..	Heenan & Froude, Ltd., Newton Heath Ironworks, Manchester
Spring, Westbromwich	Smith, Bros., & H.M.L., Ltd., Albert Spring Works, West Bromwich
Spruceness, Phone, London ..	Crane-Bennett, Ltd., 45-51, Leman St., E.1
Sprumante, Tottenham, London	Sparklets & General Mfg. Co., Ltd., Angel Rd., Edmonton, N.18
Staanfabrieken, Holland	Netherlands Steel Works, Utrecht, Holland
Stamping, Philadelphia	Standard Pressed Steel Co., Jenkintown, Pa., U.S.A.
Stampings, Ayr	Scottish Stamping & Engineering Co., Ltd., Neptune Works, Ayr, [Scotland]
Stampings, Middlebro'	Heavy Stampings, Ltd., Middlesbrough
Stapley, New York	Porter H. K., Company, Pittsburgh, Pa., U.S.A.
Stark, Manchester	United Brass Founders & Engineers, Ltd., Cornbrook, Manchester
Steamplow, London	Fowler John, & Co. (Leeds), Ltd., 113, Cannon St., E.C.
Steamport, London	Hindley E. S., & Sons, 11, Queen Victoria St., B.C.
Steam Users, Manchester	Manchester Steam Users' Association, 9, Mount St., Manchester
Steel, Cadehead	Parlington Steel & Iron Co., Ltd. Irlam, Manchester
Steel, Darlaston	Lloyd F. H., & Co., Ltd., James Bridge Steel Works, nr. Wednesbury
Steel, Glasgow	Steel Company of Scotland (Limited), 23, Royal Exchange Square,
Steel, Halesowen	Halesowen Steel Co., Ltd., Halesowen, nr. Birmingham [Glasgow]
Steel, Wednesfield	Weldless Steel Tube Co., Ltd., Wednesfield, nr. Wolverhampton
Steelite, Westcent, London ..	Thwaites Brothers, Ltd., Central House, Kingsway, W.C.2
Steelmets, Birmingham	Bradley & Foster, Ltd., 105, Colmore Row, Birmingham
Stewart, Glasgow	Stewart Duncan, & Co., Ltd., London Rd. Ironworks, Glasgow
St. Nicholas, Carlisle	Cowan, Sheldon & Co., Ltd., Carlisle
Stoker, Leeds	Triumph Stoker, Ltd., Kirkstall Rd., Leeds
Stork, Manchester	United Brassfounders & Engineers, Ltd., Cornbrook, Manchester
Stothert, Bath	Stothert & Pitt, Ltd., Bath
Stothert, London	Stothert & Pitt, Ltd., 53, Victoria St., S.W.
Strawboard, Manchester	Goodman G., Park St., Manchester
Strength, Manchester	Unbreakable Pulley & Mill Gearing Co., Ltd., 48, West Gorton, Manchester
Structural, Birmingham	Constructional Engineering Co., Ltd., Charles Henry St., Birmingham
Sturtevant, London	Sturtevant Engineering Co., Ltd., 147, Queen Victoria St., E.C.
Sudrons, Stockton-on-Tees ..	Sudron Thos., & Co., Ltd., Stockton-on-Tees
Summersen, Darlington	Summersen Thomas, & Sons, Ltd., Darlington
Superunits, Swansea	Superheater Units, Ltd., 4, Castle Square, Swansea
Sutcliffe Bros., Hyde	Sutcliffe Bros. & Bryce, Ltd., Globe Works, Godley, near Manchester
Swiftly, Halifax	Swift George, & Sons, Ltd., Range Bank, Halifax
Swinney, Morpeth	Swinney Brothers, Ltd., Wansbeck Iron Works, Morpeth
Switch, Manchester	Royce Ltd., Trafford Park, Manchester
Switches, Chester	Brook, Hirst & Co., Ltd., Northgate Electrical Works, Chester
Tagservis, Holb., London	Dennison Manufacturing Co., Ltd., 52, Kingsway, W.C.2
Tangyes, Birmingham	Tangyes Limited, Cornwall Works, Birmingham
Tangyes, London	Tangyes Limited, 35, Queen Victoria St., E.C.
Tanks, Birmingham	Ash Joseph & Son, Rea Works, Rea St. South, Birmingham
Tanks, Shipley	Rutterfield W. P., Ltd., Shipley, Yorks, England
Tapsandies, London	Hunt Hedley S., & Co., 5, Farringdon Rd., E.C.
Tay, Glasgow	Arrol Sir Wm., & Co., Ltd., Dalmarnock Ironworks, Bridgeton, Glasgow

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Taylor, Bolton, 158 ..	.. Taylor, George (Brass Founders), Ltd., Bolton, nr. Manchester
Teasdale, Stockton-on-Tees ..	.. Head, Wrightson & Co., Ltd., Teasdale Ironworks, Thornaby-on-
Telcha, Birmingham ..	.. Brookes & Adams, 250-252, Barr St., Hockley, Birmingham (Tees
Temperature, Phone, London ..	.. Green & Boulding, Ltd., 162A, Dalston Lane, E.8
Temple, Shipley ..	.. Parkinson J., & Son, Shipley, Yorkshire
Tenacity, Liverpool ..	.. Dixon, Geo. N., & Co., 41, Castle St., Liverpool
Tension, Manchester ..	.. Ferguson, Fallow, Ltd., Higher Openshaw, Manchester
Tetralomic, Stockton-on-Tees ..	.. Power Gas Corporation, Ltd., Stockton-on-Tees
Texacell, Estrand, London ..	.. Texas Oil Company, Ltd., Imperial House, 15-19, Kingsway, W.C.2
Theorem, Patricrofts ..	.. Norris, Henty & Gardners, Ltd., Patricroft, Manchester
Thermotank, Glasgow ..	.. Thermotank Co., 55, West Regent St., Glasgow
Thermovent, Leicester ..	.. Dallow, Lambert & Co., Ltd., 28, King St., Leicester
Thertrap, Glasgow ..	.. Horne Engineering Co., 35, Pitt St., Glasgow
Thompson Bros., Eliston ..	.. Thompson Bros. (Bilston), Ltd., Bradley Eng. & Boiler Works, Bilston
Thermotiv, Vic., London ..	.. Ironite Co., Ltd., 11, Old Queen St., Westminster, S.W. 1
Thornycroft, Basingstoke ..	.. Thornycroft J. I., & Co., Ltd., Basingstoke
Thornycroft, Vic., London ..	.. Thornycroft J. I., & Co., Ltd., Thornycroft House, Smith Square, Westminster, S.W. 1
Thornycroft, Southampton ..	.. Thornycroft J. I., & Co., Woolston, Southampton
Titan, Tipton ..	.. Tranter W. J., Ltd., Tipton, Staffordshire
Tomey, Aston, Birmingham ..	.. Tomey Joseph, & Sons, Ltd., Manor Glass Works, Aston, Birmingham
Toolcraft, London ..	.. Universal Machinery Corporation, Ltd., 326, Old St., E.C. 2
Tools, Leeds ..	.. Musgrave Bros., Crown Point Foundry, Leeds
Tools, Leicester ..	.. Lunt's Ltd., Halford St., Leicester
Testones, Deptmark, London ..	.. Stone J. & Co., Ltd., Deptford, S.E.
Transit, Glasgow ..	.. Union Transit Co., 381, Argyle St., Glasgow
Trenton, London ..	.. Trevent F. J., & Procter, Ltd., 43, Billiter Buildings, Billiter St.,
Triwrench, Roxbury ..	.. Trimont Mfg. Co., 55-71, Amory St., Roxbury, Mass., U.S.A. [B.
Tubes, Chesterfield ..	.. Chesterfield Tube Co., Ltd., Chesterfield
Tubes, Leeds ..	.. Yorkshire Copper Works, Ltd., Leeds
Tubes, Wednesbury ..	.. Spencer John, Ltd., Wednesbury
Tubularity, London ..	.. Sugden T., Ltd., 180, Fleet St., E.C.
Tuck Blakemore, Coventry ..	.. Tuck & Blakemore, Ltd., Coventry
Tudor, Birmingham ..	.. Ward H. W., & Co., Ltd., Dale Rd., Selly Oak, Birmingham
Tullis, Clydebank ..	.. Tullis D. & J., Ltd., Kilbowie Ironworks, near Glasgow
Tullis, Glasgow ..	.. Tullis John, & Son, Ltd., St. Ann's Leather Works, Glasgow
Turbo, Newcastle-on-Tyne ..	.. Parsons C. A., & Co., Ltd., Heaton Works, Newcastle
Turretorm, Cent., London ..	.. Jones & Lamson Machine Co., 9 & 10, Water Lane, Queen Victoria St., E.C. 4
Turton, Sheffield ..	.. Turton T., & Sons, Ltd., Spring Works, Sheffield
Tylerox, Cent., London ..	.. Hayward-Tyler & Co., Ltd., 99, Queen Victoria St., E.C.
Typhoon, London ..	.. Afdays & Onions, Ltd., 58, Holborn Viaduct, E.C.
Tysclermo, Birmingham ..	.. Smith E. J., & Co., King's Rd., Hay Mills, Birmingham
Uehline, New York ..	.. Uehling Instrument Co., 473, Getty Avenue, Paterson, New Jersey, U.S.A.
Umpteen, Sewest, London ..	.. Utting S., 82, Victoria St., S.W. 1
Unbeaten, Birmingham ..	.. Staffordshire Tube Co., Ltd., Edmund St., Birmingham
Unbreakable, London ..	.. Wells A. C., & Co., 102, Midland Rd., St. Pancras, N.W.
Unbreakable, Manchester ..	.. Wells A. C., & Co., Carnarvon St., Cheetham, Manchester
Underfeed, Ave., London ..	.. Underfeed Stoker Co., Ltd., Coventry House, South Place, E.C.2
Universe, Birmingham ..	.. Forbes Brothers, Doe St., Birmingham
Uxside, Newport, Mon. ..	.. Uxside Ironworks, Newport, Mon.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Vacuo Vic., London	Consolidated Brake and Engineering Co., Ltd., 15, Dean's Yard, Westminster, S.W.1
Vacuumiser, Walgreen, London ..	British Vacuum Cleaner Co., Parson's Green Lane, S.W.
Valor, Birmingham	Valor Co., Ltd., Aston Cross, Birmingham
Valve, Glasgow	Turnbull Alex., & Co., Ltd., Bishopbriggs, Glasgow
Valve, Liverpool	Metallic Valve Co., Colonial House, Water St., Liverpool
Vanner, Erith	Fraser & Chalmers Engineering Works, Erith, Kent
Vaporific, Vic., London	Klison Empire Lighting Co., Ltd., 1, Central Buildings, Westminster, S.W.1
Vaperize, London	Caird & Rayner, 777, Commercial Rd., Limehouse, E.
Varley, St. Helens	Varley John, & Co., Ltd., St. Helens, Lancs.
Varispeed, Vic., London	Variable Speed Gear, Ltd., Broadway Court, Broadway, S.W.1
Vaunting, Manchester	Vaughan Crane Co., Ltd., Openshaw, Manchester
Vepilot, Led., London	Seldam Packing & Rubber Co., Ltd., 29, Gracechurch St., E.C.3
Veilding, London	Thomas & Bishop, 37, Tabernacle St., E.C.
Ventilabro, Manchester	Sutcliffe Ventilating & Drying Co., Ltd., Cathedral Gates, Manchester
Venture, London	Jensen & Son, 77, Chancery Lane, W.C.
Vickers, Vic., London	Vickers Limited, Vickers House, Broadway, Westminster, S.W.
Vickers, Sheffield	Vickers Limited River Don Works, Sheffield
Victoria, Tipton	Victoria Tube Co., Ltd., Great Bridge, Staffordshire
Viking, Birmingham	Alexander George H. (Machinery), Ltd., Coleshill St., Birmingham
Vitvalle, London	Walber W. A., & Co., 38, Victoria St., Westminster, S.W.
Vires, Liverpool	Brown W. B., & Co. (Bankhall), Ltd., Globe Works, Bankhall, Liverpool
Virwires, Westcent, London ..	Smith H. W., & Co. (1920), Ltd., Central House, Kingsway, W.C.2
Vitundum, Blackburn	Tattersall A. A., & Co., Blackburn
Voidance, London	Hughes & Lancaster, 16, Victoria St., Westminster, S.W.
Vulcan, Liverpool	Henderson & Glass, Liverpool
Vulcan, Paisley	Fullerton, Hodgart & Barclay, Ltd., Vulcan Foundry and Engine Works, Paisley
Vulpes, Leeds	Leeds Forge Company, Ltd., Leeds
Waddams, Dudley	Harper A., Sons & Bean, Ltd., Dudley, Worcestershire, England
Wagon, Birmingham	Midland Railway Carriage and Wagon Co., Ltd., Midland Works, Birmingham
Wagonload, London	Pickering R. Y., & Co., Ltd., 3, Victoria St., S.W.
Wall, Newcastle-on-Tyne	Walkend Slipway & Engineering Co., Ltd., Wallsend
Warmth, Liverpool	Kermodes Ltd., 35, The Temple, Dale St., Liverpool
Warrington 214	Falreclough Harry, Howley, Warrington
Washers, Wednesbury	Hampton & Beebee, Ltd., Wednesbury, South Staffs.
Waterside, Ipswich	Ransomes & Rapier, Ltd., Waterside Ironworks, Ipswich
Waygood, Sedist, London ..	Waygood-Otis, Ltd., Falmouth Rd., S.E.
Webb, Combs	Webb & Son (Combs), Ltd., Combs Tannery, Stowmarket
Wedge, Leeds	Kaye Jos., & Sons, Ltd., Lock Works, Leeds
Weigh, Leeds	Denison Samuel, & Son, Ltd., Far Hunslet, Leeds, S.
Wellington, Middlesboro' ..	Shaw W., & Co., Wellington Cast Steel Foundry, Middlesboro'-on-Tees
Wellcoy, London	Oil Well Supply Co., Dashwood House, New Broad St., E.C.
Wemcecxpe, London	Westinghouse Electric International Co., 2, Norfolk St., Strand, W.C.2
Wertconrad, Haarlem	Wert Conrad, N.V., Haarlem, Holland
Westcelite, London	Bucyrus Co., 13, Victoria St., Westminster, S.W.
Western, Aurora, Illinois ..	Western Wheeled Scraper Co., Aurora, Illinois, U.S.A.
Westinghouse, Phone, London ..	Westinghouse Brake & Saxby Signal Co., Ltd., 82, York Rd., King's Cross, N.

TELEGRAPHIC ADDRESS.	NAME AND ADDRESS OF ADVERTISER.
Westinghouse, Manchester ..	British Westinghouse Electric & Manufacturing Co., Ltd., Trafford Park, Manchester
Westminster, Birmingham ..	Richards J. H., & Co., Ltd., Cato St. North, Saltley, Birmingham.
Westoleco, Putney, London ..	Westminster Tool & Electric Company, 116, Putney Bridge Rd., Putney, S.W. 15
Westwood, Millcast, London ..	Westwood, Joseph, & Co., Ltd., Napier Yard, Millwall, E.
Whilloric, Sewest, London ..	Hill & Co. (Engineers), Ltd., 72-74, Victoria St., S.W. 1
White, East Cowes ..	White J. Samuel, & Co., Ltd., East Cowes, I.O.W.
Whitefield, Glasgow ..	Ross & Duncan, Whitefield Works, Glasgow
Whites, Pendleton, Manchester ..	White's Injectors, Ltd., Pendleton, Manchester
Whitoll, South Shields ..	White Patent Oil Burning Oil Co., Ltd., Shadwell St., South Shields
Wiggins, Minories, London ..	Wiggins F., & Sons, 102, 103 & 104, Minories, E.
Wiley, Darlaston ..	Wiley James, & Sons, Ltd., Darlaston
Wilcox, Southwark St., London ..	Wilcox W. H., & Co., Ltd., 32 to 38, Southwark St., S.E.
Willetts, Junr., Cradley Heath ..	Willetts Charles, Junr., Ltd., Colonial Works, Cradley Heath, Staffs.
Willich, New York ..	Williams J. H., & Co., 91, Richards St., Brooklyn, New York, U.S.A.
Wills, Bridgewater ..	Wills W. & F., Ltd., Salmon Parade, Bridgewater
Wilmli, Birmingham ..	Mills William, Ltd., Grove St., Birmingham
Wincott, Sheffield ..	Wincott G. P., Ltd., 180, Attercliffe Road, Sheffield
Windlass, Glasgow ..	Napier Bros., Ltd., 130, Hydepark St., Glasgow, W.
Windtight, London ..	Harris Patent Feed-Water Filter (1910), Ltd., 82, Victoria St., S.W.
Windtight, Newcastle-on-Tyne ..	Harris Patent Feed-Water Filter (1910), Ltd., 24, Grainger St. West, Newcastle-on-Tyne
Winn, Birmingham ..	Winn Charles, & Co., Granville Place, Birmingham
Wiredrawn, Led., London ..	Bolton Thomas, & Sons, Ltd., 57, Bishopsgate, E.C.2
Wiremill, Musselburgh ..	Brunton W. N., & Son, Musselburgh, Scotland
Woodite, Mitcham ..	Woodite Company, Mitcham Common, Surrey
Wood, Saltney ..	Wood Henry & Co., Ltd., Saltney, near Chester
Woodworker, Leicester ..	Wadkin & Co., London Street, Leicester
Yarrow, Glasgow ..	Yarrow & Co., Ltd., Glasgow
Yennif, Birmingham ..	Finney George, & Co., Berkley St., Birmingham
Yusozol, Ave., London ..	Sezel, Ltd., 20, Copthall Avenue, E.C. 2
Zenith, Glasgow ..	Paterson Hughes Engineering Co., Ltd., Charlotte Lane, Glasgow
Zercamez, Paris ..	Macrez, A. R., 34, Rue de Londres, Paris (9e)
Zero, Derby ..	Haslam Foundry and Engineering Co., Ltd., Derby
Zero, Derby ..	Pontifex & Wood, Ltd., Union Foundry, Derby
Zigzag, Parl., London ..	Armstrong, Sir W. G., Whitworth & Co., Ltd., 8, Great George St., Westminster, S.W. 1

MEMORANDA.

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sous lesquels sont classées dans la présente brochure les annonces publiées dans "ENGINEERING."

Français.	Anglais.	Français.	Anglais.	Français.	Anglais.
Accessoires de locomotives	Locomotives (Mountings for)	Ascenseurs et charges	Lifts	Bois (machines à tra-vailler le)	Woodworking Machinery
Accessoires de machines et chaudières	Engine- and Boiler Fittings	Aspirateurs de gaz	Exhausters	Bois (procédés pour le séchage et la conservation du)	Timber drying and preserving
Accessoires pour chaudières	Boiler Mountings	Aspirateurs de poussières	Vacuum Dust Plant	Bois contreplaqué triple	Wood (three-ply)
Accumulateurs pour arbores de transmission	Couplings (Shaft)	Assureurs de chaudières	Boiler Insurance Co.'s	Bois plastique...	Wood (plastic)
Accumulateurs électriques	Accumulators (Electric)	Attaches et agrafes pour courroies	Belt Fasteners	Boîtes ..	Boxes
Acier à outils, spécial et rapide	Steel (Tool, Special and High-speed)	Atteles (chemin de fer)	Couplings (Railway)	Bouées (en tôle) ..	Buoys (Iron and Steel)
Acier ..	Steel	Automobiles ..	Motor Vehicles	Bouillères ..	Distilling (Water) Apparatus
Aéroplanes et hydroplanes	Aeroplanes and Hydroplanes	Bâches, récipients, fûts	Tanks and Drums	Boulons, rivets, écrous, vis, etc.	Bolts, Rivets, Nuts, Screws, etc.
Agents de Brevets	Patent Agents	Bagues métalliques pour garnitures de pistons	Metallic Packing	Boussoles ..	Compasses
Ajustage mécanique à la façon	Machining for the Trade	Balanciers pour mon-nayage	Coining Machinery	Bouteilles à gaz ..	Bottles (Gas) voir Gas
Alliages ..	Alloys (voir Metals, etc.)	Bancs à étrier ..	Draw Benches	Brasseries (installations de)	Brewery Plant
Alliages ..	Metals (Phosphor Alloys, etc.)	Bandages en caout-chouc	Tyres (Rubber)	Brevets — loi ..	Patent Law (Manufacturers under)
Alumage (Appareils d')	Igniters (Electric)	Bandages de roues ..	Tyres (Railway)	Brevets — loi ..	Patent Law (Manufacturers under)
Aluminium et produits d'aluminium	Aluminium and Aluminium Goods	Barreaux de grilles ..	Fire Bars	Briques réfractaires ..	Fire Bricks (voir Refractory Materials)
Amiante ..	Asbestos Goods, Fittings, etc.	Barres (acier et fer) ..	Bars (Steel and Iron)	Briques (Installations pour la fabrication de)	Brickmaker (Mechanical, under Water)
Andres ..	Rust Preventive	Barres et profilés en bronze	Brass rods and sections	Brise-rocs sous-marins	Brass Founders and Brass Finishers
Antirouille ..	Whitewashing and Painting Machines	Barres polies acier ..	Bars (Bright Steel)	Bronze et laiton (garnitures en)	Barrows
Appareils à badigeonner et peindre	Whitewashing and Painting Machines	Bascules et pesons ..	Weighing Machines	Broyage et séchage du charbon (Installations pour)	Coal Pulverising and Drying Plant
Appareils à cintrer les rails	Rail-benders	Bassins de radoub, etc.	Docks (Graving, etc.)	Broyeurs ..	Disintegrators (voir aussi Grinding Mills)
Appareils à fileter ..	Pipe-screwing and Cutting Machinery	Bâtiments démontables	Buildings (Portable)	Broyeurs — malaxeurs pour peintures, huiles, mortier, etc.	Mills (Paint, Oil, Mortar, etc.)
Appareils à couper les tubes	Sand Blast Machines	Bâtiments et hangars en fer et acier	Iron and Steel Buildings	Brûleurs à gaz ..	Burners (Gas)
Appareils à jeter de sable	Sand Blast Machines	Béliers hydrauliques	Hydraulic Rams	Brûleurs à huile ..	Oil fuel Burners
Appareils auxiliaires marins	Marine Auxiliaries	Bennes ou pelles automatiques	Grabs	Buanderies (machines pour)	Laundry Machinery
Appareils de hâlage ..	Haulage Plants	Benzine et ses succédanés	Petrol and its Substitutes	Burettes à huile ..	Oil-cans
Appareils de levage ..	Hoisting Machinery	Béton ordinaire et armé	Concrete (Plain and Reinforced)		
Appareils plongeurs ..	Diving Apparatus	Béton, Plaques en, Machines pour les fabriquer	Concrete Blocks and Slabs (Machines for Making)		
Apprêtées pour étoffes	Cloth-finishing Machinery	Biches ..	Sheerlegs		
Arbitres ..	Arbitrators	Blanchiment des étoffes (installations pour le)	Bleaching Machinery		
Arbres coulés ..	Cranks shafts	Blindages ..	Armour plates		
Arbres de transmission et accessoires	Shaft Fittings (voir Plummer Blocks, Bearings)	Boards ..	Or-crushing Machinery		
		Bois de construction ..	Timber		

Français.	Anglais.	Français.	Anglais.	Français.	Anglais.
Cabestans (à vapeur, hydrauliques et électriques)	Capstans (Steam, Hydraulic and Electric)	Cuisines (installations de)	Cooking Plant	Fonçage de puits (outils et machines pour le)	Boring and Sinking Tools and Machinery for Shafts and Wells (voir aussi Well Engineers)
Câbles pour lumière, télégraphes, et téléphone	Cables (Electric Light, Telegraph and Telephone)	Cuivre en lingots, en barres, et en tringles	Copper Ingots, Bars, and Sheets	Fonderies (installations de)	Foundries (Installations Foundry Plant)
Câbles sous-marins (appareils pour la pose de)	Cable Laying Machinery	Cylindres de laminiers	Rolls (Chilled and Grain)	Fonte	Iron (Pig)
Dials		Déchets de coton	Waste (cotton)	Fontes malleables	Castings (Malleable Iron)
Packing Cases and		Décapage de tôles (machines pour)	Stamping Machinery	Forêts hélicoïdaux	Drills (Twist)
Packing Material		Defournaises à coke	Coke Rams	Forges (appareils et installations de)	Forging Machines and Plant
Bridge Foundation Cylinders (voir aussi Structural Engineering)		Desincrustants pour chaudières, Appareils de désinfection (installations pour la)	Disincrustants for Boiler Scaling Appliances	Forges et aciéries (installations de)	Iron and Steel Works (Plant for)
Heating Apparatus		Dessication (installations pour la)	Drying Apparatus	Forges et feux de forges	Smiths' Fires
Canons et éléments de canons	Guns and Gun Forgings	Dessication (ventilateurs pour la)	Centrifugal Drying Machines	Forges portatives	Forges (Portable)
Canots automobiles	Motor Boats	Dessins, calques, etc.	Drawings, Tracings, etc.	Fours à gaz et à huile	Furnaces (Gas and Oil Heated)
Canots et yachts	Launches and Yachts	Destructeurs	Destructors	Fours de grillage	Furnaces (Hardening)
Cantines (matériel pour)	Canteen Equipment	Distilleries (appareils pour)	Distillery Plant	Fournisseurs de machines, etc.	Kilns Merchants (Machinery, etc.)
Cautchouc (articles en)	India-rubber Goods	Dragues	Predging Machines	Foyers de chaudières	Boiler Furnaces
Cautchouc (machines à traiter le)	Rubber Machinery	Dredges	Dredgers (Suction Plant)	Foyers et accessoires	Fittings Furnaces and Furnace
Carbureters and vaporisers		Drydges à succion	Dredgers (Suction Plant)	Foyers ondulés	Corrugated Boiler Furnaces
Cartoucheries (machines pour)	Cartridge-making Machinery	Dynamos	Dynamometers	Fraises finies et non taillées	Milling Cutters and Cutter Blanks
Casse-pierres	Stone-breakers (voir aussi Disintegrators)	Dynamomètres	Dynamometers	Fraises	Milling Machines (voir Machine Tools)
Casques pare-fumée	Smoke Helmets	Ebonite	Ebonite	Freins électriques à Solenoïde	Brake Solenoids (voir Solenoids, Brake)
Cimentation (produits pour la)	Case-hardening Materials	Echelles	Ladders and Steps	Freins (pour matériel roulant)	Brakes (Railway)
Chaînes câbles	Cables (chain)	Eclairage de travaux	Lighting Apparatus	Freins hydrauliques	Brakes (Water) (voir Dynamometers)
Chaînes de transmission	Chains (Gearing)	Eclairage électrique (installations d')	Electric Lighting Plant	Fûts	Drums (voir Tanks and Drums)
Chaudières à vapeur	Barges & Lighters (Iron and Steel)	Econémiseurs	Economisers	Fûts (Machines à fabriquer les)	Cask-making Machinery
Chaudières à vapeur (fer et acier)	Reversing Gears (Motor and Steel)	Ecouus indesserrables	Lock-nuts and Nut locking Appliances	Gabarres	Lighters (voir Barges)
Changements de marche (pour bateaux automobiles)	Switches and Crossings	Ecouus (machines à fabriquer les)	Nut-making machines	Galvanisation (installations pour la)	Galvanizing (Plant for)
Changements et croisements		Editeurs	Publishers	Galvanisation (Usines de)	Galvanisers
Chantiers navals	Shipbuilders	Electeurs d'escarbilles	Ashe-jectors	Galvanoplastie, vernissage, bronzage	Electroplating, Lacquering, Bronzing
Charbons (Electricité)	Carbons (Electric)	Electiciens	Electrical Engineers	Garniture de frein	Brake and Clutch Linings
Charnières, gonds	Hinges	Electro-aliments de suspension	Magnets (Lifting)	Garnitures de chaudières	Boiler Mountings
Chaudières à vapeur	Boilers (Steam)	Elevateurs de grain, charbon, etc.	Elevators (Grain, Coal, etc.)		
Chaudières multitubulaires	Boilers (Water-tube)	Embarcations	Boats		
Chaudronniers de cuivre	Coppersmiths	Embouts, acier	Pressed Steel and Metal Work		
Chauffage mécanique (appareils pour le)	Stokers (Mechanical)	Embrayages	Clutches		
Cheminées	Chimneys	Emeri, toile d'ameri, etc.	Emery and Cloth, etc.		
Chemins de fer à crémaillère	Railway (Rack)				

Machines à tronçonner	Cutting-off Machines	Pieux (appareils à foncer)	Pile Drivers	Soupapes de réduction	Valves (Reducing)
Machines de marine ..	Engines (Marine)	Pieux, palplanches et	Piles, Sheet Steel Piling	Soupapes de retenue	Feed Check
Machines d'extraction ..	Engines (Winning)	sauteurs de pieux ..	Pile Shoes	Soupapes d'alimentation	(Combination)
Machines et instruments	Testing Machines and Instruments	Pistons et bagues métal-	Pistons and Piston-rings	Soupapes de sûreté	Safety Valves
Machines fixes ..	Engines (Stationary)	Plaques adresses ..	Name Plates	Soupapes abrasives ..	Abrasives
Machines frigorifiques ..	Refrigerating Machinery	Plaques tournantes ..	Turntables	Sure (installations pour la fabrication)	Sugar Machinery
Machines hydrauliques	Hydraulic Machinery	Pompes de fondrie ..	Ladles	Surchauffeurs ..	Superheaters
Machines à mouler ..	Moulding Machines (voir Tools)	Pompesuses et cisai-	Punching and Shearing	Tableaux de distribu-	Switchboards and acces-
Machines outils ..	Machine Tools	les	Machines	tion et accessoires	sores
Machines à souder et	Welding and Cutting	Postes de Paris, etc.	Nail (Wire, etc. Making Machinery)	Tamppons ..	Buffers
disalter	Tools	(Machines à fabriquer les)		Tamppons fusibles ..	Fusible Plugs
Machines soufflantes	Engines (Blowing)	Pompes ..	Engines (Pumping)	Télégraphes (instru-	Telegraph Instruments
Magnètes ..	Magnets	Pompes à air ..	Air Pumps	ments de)	Telephones
Malaxeurs ..	Mixers	Pompes à vide ..	Pumps (Vacuum)	Thé (appareils pour pré-	Ten-dressing Machinery
Malaxeurs à béton ..	Concrete Mixers	Pompes d'alimentation	Pumps (Donkey)	parer les feuilles de)	Thermometers (voir
Malchures d'outils ..	Hand Tools	Pompes et installations	Pumps and Pumping	Thermomètres ..	Pyrometers and Ther-
Mandrin ..	Chucks	d'épuisement	Machinery		motometers)
Manomètres ..	Gauges (Pressure)	Pompes pour les colon-	Pumps (Colonial)		Forced and Induced
Marchands de fer et	Steel and Iron Mer-	Pompes turbines ..	Pumps (Turbine)		Draught Apparatus
acier	chandises	Ponts ..	Bridges (voir Structural Engineering)		Roofing material
Marteaux mécaniques	Hammers (Drop)	Portes étanches ..	Doors (Watertight)		Roofs (Iron, Steel, and
Marteaux de grosse	Hammers (Power)	Poteaux, Supports ..	Poles, Posts and Standards		Zinc, voir Structural
forge		Poteries (installation de)	Pottery and Encaustic Tile Machinery		Sheet Metal Work
Marteaux-pilons ..	Steam Hammers	Poudre et coton-poudre	Gunpowder and Gun-		Sheet Metal Work and
Matelas et enduits calo-	Non-conducting Com-	(installations pour la	cotton Machinery		Machinery
ribages ..	posites and Concrac-	fabrication de)	Pulley-blocks		Tôles décomposées, fer et
Matériel de chemins de	tion's plant	Poulies moulées ..	Pulleys (Wood)		Stampsings (Iron and
Matériel roulant	Rolling Stock	Poulies de transmission,	Pulleys (Transmission, en bois		Steel)
chemins de fer	(voir Carriage, Wagon, and Engine—Locomotive)	Poulies de transmission, fer et acier	Pulleys (Wrought Iron and Steel)		Plates (Dished and
Mécanisme de distribu-	Valve Gear	Poulies de transmission, en fonte	Pulleys (Cast-iron)		Plates (Iron and Steel)
Métal déployé ..	Expanded Metal	Poutres et poutrelles	Girders		Perforated Metals
Métaux (spécial)	Metals (Alloy Steels)	Presses à copier ..	Copying Presses		Torpedos Boats
Métaux (antiriction ..	Metals (Antiriction)	Presses à coton ..	Cotton Presses		Turnstiles
Métaux à tisser ..	Looms	Presses à forger ..	Forging Presses		Engines (Traction) voir
Métaux à griser ..	Grindstones	Presses hydrauliques	Hydraulic Presses		aussi Tractors (Oil, Steam, etc.)
Méules (machines à	Grinding Machinery	Presses mécaniques	Presses (Power)		Transformers
mouler)		Prises d'eau ..	Hydrants		Transformateurs d'ordres
Méules d'éneri ..	Emery Wheels	Produits chimiques (ap-	Chemical Works (Plant for)		à bord
Méubles et fournitures	Office Fittings, Furni-	pareils pour la fabri-	Refactory Materials		Shafting and Shaft Fit-
de bureaux	ture and Appliances	cation de)	Products réfractaires		tings
Méuneries (installations	Mill Machinery (Flour, Corn, and Rice)	Projecteurs ..	Search-lights		Transmissions par en
Mica ..	Mica	Puits artésiens ..	Tube Wells		grengues, etc.
Micromètres ..	Micrometers	Pulvérisation (broyeurs	Pulverisers		Transporteurs ..
Mines (machines pour)	Mining Machinery	pour la)	Purgeurs automatiques		Rope Tramways, voir
Mises en marche et ac-	Motor Starters and ac-	Pyromètres et thermo-	Pyrometers and Ther-		aussi Tramways
cessoires	cessories	mètres	moneters		Coal-handling Plant
Modèles (Fabricants de)	Model Makers				

Français.	Anglais.	Français.	Anglais.	Français.	Anglais.
Traverses de chemins de fer	Sleepers (Railway)	Tuiles vernies (machines pour la fabrication de)	Pottery and Encaustic Tile Machinery	Tuyaux de vapeur	Steam Pipes
Treux	Windlasses, (voir Cranes)	Turbines	Turbines	Tuyaux en fonte (fabri-	Pipe Founders
Triens magnétiques ..	Separators, Magnets, etc.	accessoires	Fittings	cants de)	
Trous d'homme (ferme-)	Manhole Doors	Tuyaux de vapeur	Steam Pipes	Tuyaux soudés ..	Pipes (Large and Lap-
Tubes de niveau d'eau ..	Gauge Glasses	Tuyaux toile, cuir ou	Hose Pipes and Coup-		
Tubes et tuyaux (fer)	Pipes (Wrought Iron and Steel) voir aussi et acier	caoutchouc, et ac-	plings		
Tubes et tuyaux en	Coils (Pipe and Tube)	Tuyaux toile, cuir ou	Hose Pipes and Coup-		
serpentins		compléments			
Tubes (laiton et cuivre)	Tubes (Brass and Cop-	Vannes	Sluices		
	per)	Ventilateurs ..	Fans and Blowers (Ven-		
Tubes (métaux autres	Tubes (Non-Ferrous)		tilators and Air Pro-		
que le fer)		Vérins	peilers)		
Tubes métalliques (ma-	Tube-making Machinery		Jacks (Lifting)		
chines à fabriquer les)					

con que están clasificados en este librerío los anuncios que publica "ENGINEERING."

Español.	Inglés.	Español.	Inglés.	Español.	Inglés.
Accesorios para calderas y aparatos de medida	Boiler Mountings and Scientific Apparatus	Aparatos de calefacción	Heating Apparatus	Barriles	Drums (ver Tanks and Drums)
Acero-manganeso y forjas fundidas y forjadas	Pie-manganese Steel Castings and Forgings	Aparatos de cambio de marcha (para buques automoviles)	Reversing Gears (Motor Boats)	Barriles (Maquinas para fabricarlos)	Cask-making Machinery
Acetinas	Oil-cans	Aparatos de clarificar agua	Water-purifying Apparatus	Barrotes de patillas	Fire Bars
Acero para herramientas especial y rapido	Steel (Tool, Special and High-speed)	Aparatos de desecar	Drying Apparatus	Basculas	Weighing Machines
Acero y metal troqueado (Piezas de)	Pressed Steel and Metal Work	Aparatos de filtración, electrica	Filtering Apparatus (Electric)	Bencina y sus sustitutos	Petrol and its Substitutes
Aceros moldados	Castings (Steel)	Aparatos de ignición	Igniters	Bocartes	Crushing Machinery
Acoplamientos de acoples (Shaft)	Couplings (Shaft)	Aparatos de secar el vapor	Steam Separators	Bocas de agua	Hydrants
Acumuladores eléctricos	Accumulators (Electric)	Aparatos de transmisión de ordenes para buques	Telegraphs (Engine and Steering)	Bombas centrífugas	Pumps (Centrifugal)
Acufar (Máquinas de)	Mint Machinery	Aparatos para comprobar la entrada y la salida de los obreros	Time-checking Machines and Time Registers	Bombas de aire	Air Pumps
Aeroplanos e hidroplanos	Aeroplanes and Seaplanes	Aparatos para medir la torsion	Torsion Meters	Bombas de alimentación	Pumps (Donkey)
Ablar, Materiales de	Abrasives	Aparatos para vaciar cloacas	Cesspool Exhausters	Bombas para las colonias	Pumps (Colonial)
Agrimensura (Instrumentos de)	Surveying Instruments	Aparatos reguladores de la alimentación	Feed-water Regulators	Bombas turbinas	Pumps (Turbine)
Agentes de privilegios	Patent Agents	Arbitros	Arbitrators	Bombas y maquinas elevadoras de agua	Pumps and Pumping Machinery
Ajustamiento, mecánico (Trabajos de)	Mechanical Trade	Arboles manivelas	Cranks	Botellas de gas	Bottles (gas) (ver Gas Cylinders)
Aglomerados (Instalaciones para la fabricación de)	Briquette (Machinery)	Arenilla	Sand (Moulding)	Boyas (de hierro y acero)	Buoys (Iron and Steel)
Alambre	Wire	Arrietes hidráulicos	Hydraulic Rams	Bronce fosfórico y otras aleaciones	Metals (Phosphor Alloys), etc.
Alambre y cuerdas para tejer enderezar, portar y enrollar	Wire Weaving, Straightening, Cutting and Coiling Machines	Arroz (Máquina para la preparación del)	Rice-dressing Machinery	Bronce (piezas fundidas en y terminadas de ajuste)	Brass Founders and Brass Finishers
Alambres y cables telegráficos	Telegraph Wire and Cables	Asientos de Válvulas (Presadoras para)	Valve Reseating Machines	Brújulas	Compasses
Alambre y cuerdas de alambres	Wire and Rope	Aspiradores	Exhausters	Bujas con motor de petróleo	Sparking Plugs (ver Igniters, Electric)
Aleaciones	Makers	Aspiradores de polvos	Vacuum Dust Plant		
Aleaciones (Aparatos de)	Alloys (ver Metals, etc.)	Astilleros navales	Shipbuilders		
	Lighting Apparatus (ver Lamp, Electric)	Astronomía (Instrumentos de)	Astronomical Instruments (ver Instruments, Surveying)		
Aluminio y productos de aluminio	Aluminum and Aluminum Goods	Automoviles	Motor Vehicles		
Amianto	Asbestos Goods, Fittings, etc.			Cables	Cables (Electric Light, Telegraph and Telephone)
Ancoras	Anchor	Bancos para estirar los metales	Draw-benches	Cables de cadena	Cables (Chain)
Ancoras auxiliares de marina	Marine auxiliaries	Bandas de caucho: Bancas y Lanchones aljadores (hierro y acero)	Tyres (Rubber) Barges and Lighters (Iron and Steel)	Cables eléctricos	Electric Cables
Aparatos de agricultura	Agricultural Machinery	Barras (acero y hierro)	Bars (Steel and Iron)	Cables submarinos (Aparatos para colocarlos)	Cable Laying Machinery
Aparatos de apagar los incendios	Fire-extinguishing Apparatus	Barras pulidas, acero	Bars (Bright Steel)	Cabrestantes	Winches
Aparatos de blanquear y pintar	Whitewashing and Painting Machines	Barras y perfilados de bronce	Brass Rods and Sections	Cabrestantes de vapor, hidráulicos y eléctricos	Steam, Hydraulic and Electric Capstans
				Cajas fuertes	Boxes
				Cajas	Safes
				Cajas y material de embalar	Packing Cases and Packing Material

Español.	Inglés.	Español.	Inglés.	Español.	Inglés.
Calderas (Compañías aseguradoras de)	Boiler Insurance Companies	Desintegradores	Disintegrators	Funderías (Instalaciones para)	Foundry Plant
Calderas (Compañías de inspección de)	Boiler Inspection Societies	Desperdicios de alcohol	Waste (alcohol)	Funderías de tubos y tubería	Pipe Founders (ver también Tubes)
Calderas de vapor	Boilers (Steam)	Destilador (Apáratos de)	Distillery Plant	Funderías de aluminio	Castings (Aluminium)
Calderas multitubulares	Boilers (Water-tube)	Dibujos, calcos, etc.	Drawings, Tracings, etc.	Fundiciones de hierro	Castings (Iron)
Calderas (Tapas de agujeros para limpiar)	Boiler Manholes	Dinamómetros	Dynamometers	Fundiciones en mal-riños	Die Castings
Caldereros	Coppersmiths	Diques de cañon, etc.	Docks (graving, etc.)	Fundiciones, metal otro que hierro	Castings (Non-Ferrous)
Calderos de colada	Cadles	Dragas de succión	Dredgers (Suction)		
Cambios de vía y cruces	Switches and Crossings	Dragas; máquinas de cavar	Dredging Machines		
Campanas y aparatos buccar	Diving Apparatus	Dragas de arena aurífera	Gold Dredgers		
Cañones y piezas fraguadas para los mismos	Guns and Gun Forgings	Durmiertes; vigas	Girders		
Canthinas (Ustensilios para)	Canteen Equipment	Ebonito	Ebonite	Galvanización (Instalaciones para)	Galvanizing (Plant for)
Carbonización (Materia para la)	Case-hardening Materials	Económizadores	Economisers	Galvanización (Talleres de)	Galvanisers
Carburizadores y gasificadores	Carburisers and Gasifiers	Edificios y tejadillos de hierro y acero	Iron and Steel Buildings (general Engineering)	Gas (Instalaciones para su fabricación)	Gases (Plant for producing)
Carretes	Carriages	Editores	Publishers	Gas (Oxígeno, etc.)	Gases (Oxygen, etc.)
Carretones	Carriage-boxes	Ejes acodados	Elbowed Axles	Gas Comprimido	Compressed Gases
Carruajes de ferrocarril	Railway Carriages	Ejes arbolés	Tree Axles	(Frascos y Accesorios para el)	(Bottles and Fittings for)
Carruajes de ferrocarril	Railway Carriages	Electro-ímanes de suspensión	Lifting Magnets	Giroscopios	Gyroscopes
Carruajes de ferrocarril	Railway Carriages	Elevadores y ascensores	Lifts	Grabadores en hueco	Die Sinks
Carruchos (Accesorios de)	Carriage-Making Machinery	Embarcaciones	Boats (ver Barges, etc.)	Grafito (Lubricating, etc.)	Graphite (Lubricating, etc.)
Carruchos (Máquinas de hacer)	Carriage-Making Machinery	Embolos y anillos	Pistons and Piston-rings	Grifos para el agua de condensación	Steam Traps (etc.)
Casas desmontables	Buildings (Portable)	Embragues	Clutches	Grúas a caballo	Sheerlegs
Casos parahumo de bombas	Smoke Helmets	Empaqueadura (material de)	(packing material)	Grúas, grúas correderizas	Cranes, Travellers, Winches, etc.
Caucho (Artículos de)	India-rubber Goods	Enfriadores de agua de condensación	Water-cooling Plants (ver también Cooling Towers)	Guarnición del freno	Brake and Clutch
Caucho (Máquinas para tratar el)	Rubber Machinery	Enganches (Ferrocarriles)	Couplings (Railway)	Guarniciones de cuero	Leathers, hydraulic, etc.
Cerveza (Instalaciones para hacer la)	Brewery Plant	Engranajes, árboles, etc., de transmisión	Gears (Rawhide)	Guarniciones de máquinas y calderas	Engine and Boiler fittings
Cestas o palas automáticas	Grabs	Engranajes de chorro	Water Gearing	Guarniciones metálicas	Metallic Packing
Chapa delgada (Piezas soldadas en)	Sheet Metal Work	Escaleras de vísium	Ladders and Steps	Guarniciones y accesorios, metal y otros	Furnitures and Fittings (Metals, etc.)
Chapas embutidas y con borde vuelto	Plates (Dished and Flanged)	Escarpas y clavos	Spikes and Nails	Guindastes; grúas	Jacks (Lifting) Winches
Chapas perforadas	Perforated Metals	Escritorios para ingenieros	Engineers' Cabinets		
Chapas y planchas oblongas, y maquinaria para eso	Sheet Metal-work and Machinery	Estados de alumbrado eléctrico	Electric-lighting Plant		
Charbones (Electrificados)	Charbons (Electric)	Estados de alumbrado eléctrico	Electric-lighting Plant		
Charqueles	Hinges	Estados de alumbrado eléctrico	Electric-lighting Plant		
Chimeneas	Chimneys	Estados de alumbrado eléctrico	Electric-lighting Plant		
Chiminos de laminación	Rolls (Chilled and Grain)				
Cimento (de escoria, Portland, etc.)	Cement (Iron, Portland, etc.)				

Cisternas, depósitos y Tanks and Drums bariles	Estampas de hierro y Stampings (Iron and acero)	Herramientas y útiles... Tools (Hand and Small) (<i>ver también</i> Machine Tools)
Cobre en lingotes, Bars, las, chapas Cocinas (Instalaciones de)	Estructuras Estuches de compases... Evaporizar (<i>ver tam- bien</i> Distilling Water Apparatus)	Hidrokinetros .. Hydrokineters and tem- perature equalisers (<i>ver también</i> Boiler Circulators)
Cojinetes a bolas y á rodillos (Ball and Rol- ler)	Extracciónes de gas .. Gas Exhaustors	Hierro colado malleable (Pizas fundidas de)
Cojinetes de empuje y de fondo	Extracciónes de ceniza .. Ash Ejectors	Hierro en lingotes .. Galvanised Ironwork
Colectores de polvo ..	Fabricantes Manufacturers (<i>ver tam- bien</i> Patent Law)	Hilandería y tejeduría (Máquinas de)
Combinadores eléctricos Controllers (Electrical)	Fabricas de gas (Insta- lacion de)	Hogares de destruir basuras
Combustibles líquidos... Liquid Fuel, Oil Fuel	Fabricas de hierro y acero (Instalacion de)	Hogares: hornos: y ac- cesorios
Comerciantes Merchants	Fabricas de productos químicos (Instalacion de)	Hogares ondulados de calderas
Compañías de seguros... Insurance Companies	Ferrocarriles (Material fijo de)	Hormigón ordinario y armado
Compresores de gas ad- alta presión	Ferrocarriles de cre- mallera	Hormigón, Placas de bacterias para Making
Compuestas de esclusas Destilando (Water) Ap- paratus	Ferrocarriles (Material rodante de)	Hornos de calchación Kilns
Condensadores para ma- quinas de vapor	Ferrocarriles y contra- tistas (Material para)	Hornos de caldar re- vivet Heaters
Condensadores por irri- gacion	Filtros de aire Filters (Air)	Hornos de gas y a olio... Heated
Contadores Speed Indicators and Counters	Filtros y refrigeradores Oil Filters and Coolers	Hornos para templar .. Furnaces (Hardening)
Contadores de vueltas Counters (for revolu- tions)	Filtros para agua de alimentación	Hulleras Colliery Proprietors
Contadores varios .. Contractors	Formulas de caldera .. Photography and Ma- terials and Appliances for	Impregnación Waterproofing Com- pounds
Contrachas para cerrar Belt Fasteners	Fotografía, material y aparatos de reproduc- cion de dibujos	Indicadores de nivel de agua
Correas de cuero, tela, etc.	Fraguas; herrerías .. Smiths' Fires	Indicadores de vaho y de presión hidráulica Gauges (Pressure, Vac- uum and Hydraulic)
Corredores de rieles .. Rail-benders	Fraguas (Máquinaria y útiles para)	Indicadores (Máquinas de vapor y motores de gas)
Crisoles Screens	Fraguas portátiles .. Forging Machines and Plant	Ingenieros consultantes Inspectors (Consulting Engineers)
Cruces Crucibles	Frenos eléctricos a sole- noide	Ingenieros electricistas Electrical Engineers
Cuadros Dials	Frenos hidráulicos .. Hydraulic Brakes	Ingenieros mecánicos Mechanical Engineers
Cuadros Gauges	Frenos para ferrocarriles Brakes (Railway)	Instalacion de talleres Consultants (Consulting Engineers)
Cuerdas motrices .. Ropes (Driving)	Fresadoras Milling Machines	Instrumentos matemá- ticos
Curtidores y Zurzadores de pieles	Fresas para la fabrica- cion de ruedas denta- das	Instrumentos telegra- ficos
Dentelladoras mecáni- cas para ruedas Descargadoras para Coke Rams	Fundación de puentes (Campanas para la)	Injectores Injectors
Hornos de cok Descargadoras centrífugas Centrifugal Drying Ma- chines		Laboratorios químicos y físicos
Desenganchado de motores Motor Starters and Ac- cesories		Laboratorios y Test- ing Plants
Destricadoras para Boiler Scraping Appli- ances		

Español.	Inglés.	Español.	Inglés.	Español.	Inglés.
Ladrillos refractarios...	Fire Bricks (<i>ver</i> Refractory Materials)	Martinetes mecánicos...	Hammers (Power and Drop)	Martinetes mecánicos...	Hammers (Power and Drop)
Lámparas ..	Lamps (<i>ver</i> <i>también</i> Electric Lighting and Power Plant)	Masa aisladora...	Insulating Materials	Masa aisladora...	Insulating Materials
Lámparas incandescentes	Incandescent Lamps	Material desinfectante para calderas	Disinfectants	Material desinfectante para calderas	Disinfectants
Lana de Madera (Máquinas de hacerla)	Wood Wool Machinery	Material refractario ..	Refractory Materials	Material refractario ..	Refractory Materials
Lanchas y yates	Launches and Yachts	Mazas, martinetes ..	Pile Drivers	Mazas, martinetes ..	Pile Drivers
Lanchones aliflores ..	Lighters (<i>ver</i> Barges)	Mecanismo de distribución por válvulas	Valve Gear	Mecanismo de distribución por válvulas	Valve Gear
Lápices ..	Pencils (<i>ver</i> Drawing Instruments)	Mecanismo del timón ..	Steering Gear	Mecanismo del timón ..	Steering Gear
Levantadores mecánicos	Hoisting Machinery (<i>ver</i> Cranes)	Mecheros de gas ..	Burners (Gas)	Mecheros de gas ..	Burners (Gas)
Linas ..	Ropes (<i>también</i> Tires (Railway))	Mecheros para quemar aceite	Oil Fuel Burners	Mecheros para quemar aceite	Oil Fuel Burners
Llanas ..	Engines (Portable)	Metal ensachado ..	Expanded Metal	Metal ensachado ..	Expanded Metal
Locomóviles ..	Engines (Locomotive)	Metas (acero especial)	Metals (Alloy Steels)	Metas (acero especial)	Metals (Alloy Steels)
Locomotoras ..	Engines (Locomotive)	Metas antifricción ..	Metals (antifriction)	Metas antifricción ..	Metals (antifriction)
Locomotoras (Accesorios de)	Locomotives (Accessories for)	Metralla, recortes ..	Scrap Metal	Metralla, recortes ..	Scrap Metal
Lubrificantes para máquinas	Lubricants (Cutting)	Mezcladoras de hormigón	Concrete Mixers	Mezcladoras de hormigón	Concrete Mixers
Lubricantes para máquinas	Lubricants	Mezcladoras mecánicas	Mixers	Mezcladoras mecánicas	Mixers
Lubrificante para correas	Belt Treatment	Mica ..	Mica Merchants	Mica ..	Mica Merchants
Madera (Procedimientos de secar y de conservación)	Timber drying and preserving	Micrómetros ..	Measuring Micrometers	Micrómetros ..	Measuring Micrometers
Madera de construcción	Timber	Minas (Máquina de)	Mining Machinery	Minas (Máquina de)	Mining Machinery
Madera de tres hojas ..	Wood (three-ply)	Modelistas ..	Model Makers	Modelistas ..	Model Makers
Madera plástica ..	Wood (plastic)	Moldeadoras mecánicas	Moulding Machines	Moldeadoras mecánicas	Moulding Machines
Magnetos ..	Magnets	Molinetes ..	Turistiles	Molinetes ..	Turistiles
Mandriles, Mangotes ..	Chucks	Molinos de aceite ..	Oil Mill and Refining	Molinos de aceite ..	Oil Mill and Refining
Mangos decherramientas	Handles (Tool)	Molinos de muelas ..	Grinding Mills (<i>ver</i> <i>también</i> Disintegrators)	Molinos de muelas ..	Grinding Mills (<i>ver</i> <i>también</i> Disintegrators)
Mangueras y acoplamientos	Hose Pipes and Couplings	Molinos de pintura, aceite, mortero, etc.	Paint, Oil, Mortar, etc.	Molinos de pintura, aceite, mortero, etc.	Paint, Oil, Mortar, etc.
Manómetros ..	Gauges (Pressure)	Molinos y máquinas trituradoras de extracción de oro	Gold-crushing and Amalgamating Machinery	Molinos y máquinas trituradoras de extracción de oro	Gold-crushing and Amalgamating Machinery
Máquina agrícola de vapor	Steam-cultivating Machinery	Molinos de bencina ..	Engines (Petrol)	Molinos de bencina ..	Engines (Petrol)
Máquina de acufiar ..	Coining Machinery	Motors de gas ..	Engines (Gas)	Motors de gas ..	Engines (Gas)
Máquina de blanquear	Bleaching Machinery	Motors de petróleo ..	Electric Motors	Motors de petróleo ..	Electric Motors
Máquina de elaborar madera	Wood-working Machinery	Mueles amoladoras ..	Grindstones	Mueles amoladoras ..	Grindstones
Máquina de fabricar cemento	Cement-making Plant	Mueles de esmeril ..	Emery Wheels	Mueles de esmeril ..	Emery Wheels
Máquina de hilar ..	Spinning	Mueles; resortes ..	Springs	Mueles; resortes ..	Springs
Máquina de lavar	Laundry Plants	Mueles espirales (Máquinas para fabricarlas)	Springs and Coils (Machinery for making)	Mueles espirales (Máquinas para fabricarlas)	Springs and Coils (Machinery for making)
Máquina de lavaderos	Laundry Machinery	Munición de guerra ..	Ammunition	Munición de guerra ..	Ammunition
Máquina de transportar y almacenar la bala	Coal-handling Plant	Navegación marítima y agentes de transporte	Shipping and Transport Agents	Navegación marítima y agentes de transporte	Shipping and Transport Agents
Máquina para el tratamiento de hojas de té	Tea-dressing Machinery				

Máquina para hacer Pottery and Encaustic alfarería y tejas en- cáusticas	Oficinas (Artículos para)	Office Fittings, Furni- ture and Appliances	Señales de ferrocarriles Railway Signals
Máquina para molinos Mill Machinery (Flour, harinos Corn, and Rice)	Oxidación (Materia para protección contra la)	Rust Preventive	Separadores de crema.. Cream Separators
Máquinas calóricas .. Engines (Air)	Palancas para levantar Rail-lifters		Separadores de óleo .. Oil Extractors
Máquinas centrífugas Hydro-extractors	Parrillas para cargar auto- mática	Stokers (Mechanical)	Separadores magnéticos .. Magnets, etc.
Máquinas de aderezar el palo	Palancas para levantar Rail-lifters		Sierras (Fabricas de) .. Saw-makers
Máquinas de conformar Nut-making Machines	Palancas para cargar auto- mática	Stokers (Mechanical)	Sirenos y silbato .. Sirens and Whistles
Máquinas de desagüe .. Engines (Pumping)	Pastadores .. Pins (Taper)	Com- positions	Sitios para talleres .. Sites (Industrial)
Máquinas de instrument- tos de ensayos	Pastadores .. Pins (Taper)	Com- positions	Sobrecalentadoras de vapor
Máquinas de escribir .. Typewriters	Perforadoras mecánicas	Rock Drills	Soldaduras y fundentes Solders and Fluxes
Máquinas de esmerilar etc.	Peritos técnicos	Survivors (ver Auction- eers)	Solenoides (Brake)
Máquinas de estampillar Engines (Winding)	Pernos, remaches, tuer- cas, tornillos, etc.	Bolts, Rivets, Nuts, Screws, etc.	Sourras eléctricas .. Electric Bells & Signals
Máquinas de fletar .. Milling Machinery	Pernos y tuercas (Má- quinas para fabricar)	Bolt and Nut-making Machinery	Soportes .. Plummer Blocks
Máquinas de hacer lad- rillos y tejas	Picos, palas y azadas .. Picks Shovels, (Brass, Copper,	Stampings	Tapas de agujeros para Manhole Doors
Máquinas de hacer tubos etc.	Piezas estampadas (bronze, latón, cobre aluminio, etc.)	Aluminum, etc.)	Taladros salomónicos Drills (twist)
Máquinas de pulimentar á chorro de arena	Piezas forjadas (bronze, latón, cobre, etc.)	Forgings (Brass, Bronze, Copper, etc.)	Tapones fusibles .. Fusible Plugs
Máquinas de punzonar y cizallar	Piezas forjadas-metal otro que hierro	Forgings (Non-Fer- rous)	Techados (material para)
Máquinas de refrigerar Refrigerating Machinery	Piezas fraguadas de hierro y acero	Forgings (Iron and Steel)	Techados metálicos y Zinc (ver tambien Structural Engineering)
Máquinas de roscar y cortar tubos	Piezas forjadas en es- tampa	Forgings (Drop)	Termómetros .. Thermometers
Máquinas de soldar y cizallar	Pilones de vapor .. Steam Hammers	and Pile Shoes	Termómetros .. Thermometers
Máquinas de tejer .. Looms	Pilotes, palizadas de tablones, azuches de plantes	Paints, Varnishes, etc.	Teléfonos .. Telephones
Máquinas de tracción .. Engines (Traction), ver tambien Tractors (Oil, Steam, etc.)	Pilotes, barnices, etc.	Pyrometers and Thermo- meters	Tintas .. Inks
Máquinas de tronzar Máquinas elevadoras de Elevators (Grain, Coal, grano, bulla, etc.	Placas de blindaje .. Armour-plates	Plates (Iron and Steel)	Tiro forjado y por suc- ción (Aparatos de)
Máquinas excavadoras Excavators	Placas de nombre .. Name Plates		Tornillos, etc., .. Screws, etc.
Máquinas fijas .. Engines (Stationary)	Planchas y chapas de hierro y acero	Plates (Iron and Steel)	Tornillos de banco .. Vices
Máquinas frigoríficas .. Ice-making Machinery	Plataformas eléctricas	Turntables	Torpedos .. Torpedo Boats
Máquinas-herramientas de toda clase	Plataforma eléctrica, Baruzadura, Bron- ceadura	quering, Bronzing	Tractores (de aceite mineral, de vapor)
Máquinas hidráulicas .. Hydraulic Machinery	Poleas de fundición .. Poles of iron and steel	Pulleys (Cast-iron and Steel)	Trajes y guantes de trabajo
Máquinas para comprimir el aire	Poleas de hierro y acero	Pulleys (Wrought-iron and Steel)	Transformadores .. Transformers
Máquinas para romper rocas sumergidas .. Engines (Blowing)	Poleas de madera .. Pulleys (Wood)	Gunpowder and Gun- cotton Machinery	Transmisiones y ac- cesorios
Máquinas soplamantas .. Grinding Machinery	Pólvera y fulminicio .. (Máquinas para fabri- carlos)		Transportadores y ele- vadores
			Transporters and Eleva- tors (ver tambien Runways)

Español.	Inglés.	Español.	Inglés.	Español.	Inglés.
Tranvías funiculares ..	Rope Tramways	Tubos serpentines ..	Coils (Pipe and Tube)	Válvulas de gas, vapor	Valves (Gas, Steam,
Tranvías y material de	Tramways and	Tubos soldados á sola	Pipes (Large and Lap-	agua, etc.	Water, etc.)
Trápicos y maquinaria	Sugar Machinery	pada	welded) (<i>ver también</i>	Válvulas de reducción	Valves (Reducing)
de extraer el azúcar	..	Tuerzas cerradas y re-	Lock-nuts and Nut-	Válvulas de seguridad ..	Valves (Safety)
Traviesas ..	Sleepers (Railway) (<i>ver</i>	quisitos de cierre ..	locking Appliances	Ventiladores ..	Ventilators
	Way)	Turbinas ..	Turbines	Ventiladores y sopla-	Fans, Blowers, Ven-
Trenes de laminación	Rolling-Mill Machinery	Turbinas de vapor y ac-	Steam Turbines and	dores	tillators and Air Pro-
(instalación de)	(<i>ver</i> Iron and Steel	cesorios	Fittings	Vías aéreas ..	pellers
Trituración y deseca-	Works, Plant for)	Untos y óleos ..	Lubricants and Oils	Vías ligeras y portátiles	Runways (Light and
ción del carbon	Coal Pulverising and				Portable)
(aparatos para la)	Drying Plant	Vacio (Aparatos de)	Pumps (Vacuum)	Vidrios ..	Glazing
Tubos de hierro y acero	Pipes (Wrought Iron	Vagones automóviles ..	Wagons, Self-propelled	Vigas laminadas (Hierro	Joists Rolled (Iron and
	and Steel) (<i>ver también</i>		(<i>ver también</i> Motor	y acero)	Steel)
Tubos de latón y cobre	Tubes (Brass & Copper)	Vagones de ferrocarriles	Vehicles)	Vulcanito y fibra vul-	Vulcanite and Vulcan-
	(<i>ver también</i> Pipes)	(Fabricas de)	Wagon (Railway) Build-	canizada	ised Fibre
Tubos metal otro que	Tubes (Non-Ferrous)	Vagonetas de bscula	ers		
hie ro		Válvulas de cierre	Wagons (Tip)		
Tubos de vapor	.. Steam Pipes	la Feed-Check	Feed-Check		
		alimentación	(Combination)		
				"Woodite," para em-	"Woodite" for Steam,
				paquetar y aislar	Electrical, and Hy-
					draulic Packings

(ITALIAN GLOSSARY).

TRADUZIONE DEI NOMI DEGLI ARTICOLI

sotto i quali sono classificati gli annunci pubblicati nel "ENGINEERING."

Italiano.	Inglese.	Italiano.	Inglese.	Italiano.	Inglese.
Abitie guanti da lavoro	Boiler Suits (<i>vedi</i> Overalls, Gloves, etc.)	Apparecchi per imbiancare e tingere	Whitewashing and Painting Machines	Barili	Drums (<i>vedi</i> Tanks and Drums)
Accensione elettrica (Organi d')	Igniters (Electric)	Apparecchi di cambiamento di marcia (per barche automobili)	Reversing Gears (Motor Boat)	Barili (Macchine per farli)	Cask-making Machinery
Accessori delle caldaie e apparecchi di misura	Boiler Mountings and Scientific Instruments	Apparecchi d'illuminazione	Lighting Apparatus (<i>vedi</i> Electric Lighting and Power Plant)	Barre (Acciaio e Ferro)	Bars (Steel and Iron)
Accessori delle macchine e caldaie	Engine and Boiler-fittings	Apparecchi di sollevamento	Hoisting Machinery (<i>vedi</i> <i>Hydraulic Cranes</i>)	Barre acciaio pulite	Bars (Bright Steel)
Acciaierie	Steel Makers	Apparecchi di trafilatura del filo, etc.	Draw Benches	Barre e profilati di bronzo	Bars and Rods and Sections
Acciaio	Steel and Iron Works (Plant for) (<i>vedi</i> Iron and Steel Works)	Apparecchi per controllo dell'entrata e uscita dei lavoratori	Time Checking Machines and Time Registers	Battipali	Pile Drivers (<i>vedi</i> <i>Hydraulic Rams</i>)
Acciaio (Pezzi tusi e fucinati)	Manganese Steels Castings and Forgings	Apparecchi per depurazione delle acque	Water-purifying Apparatus	Becchi a combustione d'olio	Becchi a combustione d'olio
Acciaio per utensili, speciale e rapido	Steel (Tool, Special and High-speed)	Apparecchi per estinguere incendi	Fire-extinguishing Apparatus	Becchi a gas	Burners (Gas)
Acciaio e metallo stampato (Pezzi di lavoro)	Pressed Steel and Metal Work	Apparecchi per misurare la torsione	Torsion Meters	Benzina e 1 suoi succedanei	Petrol and its Substitutes
Accoppiamenti degli alberi	Couplings (Shaft)	Apparecchi per scaricare iorni a coke	Coke Rams	Binari	Light Railways (<i>vedi</i> Railways, Light and Portways)
Accumulatori elettrici	Accumulators (Electric)	Apparecchi per scaricare le fogne	Cesspool Exhausters	Birreria (Impianti per)	Beerery Plant
Aeromotori	Exhausters	Apparecchi per tiraggio forzato e indotto	Forced and Induced Draught Apparatus	Bombole da gas	Bottles (gas) <i>vedi</i> Gas Cylinders
Aeroplani e idroplani	Aeroplanes & Seaplanes	Argenti	Argentors	Bronzo fosforoso, etc...	Metals (Phosphor Alloys, etc.)
Agenti di brevetti	Patent Agents	Argenti a vapore, idraulici e elettrici	Capstans (Steam, Hydraulic and Electric)	Bucaliniere	Shampooing Machinery
Agenti di assicurazione	Insurance Companies	Arpioni e chiodi	Spikes and Nails	Burette per olio	Oil-cans
Assegnamenti per Couplings (Railway)	Couplings (Railway)	Ascensori	Lifts	Bussola	Compasses
Assegnamento meccanico (Lavori d')	Machining for the Trade	Aspiratori di polveri	Vacuum Dust Plant	Calcestruzzo, lastre, etc.	Concrete Blocks and Slabs
Alberi a gomito	Cranks	Assi	Axes	Caldaie a tubi d'acqua	Boilers (Water-tube)
Alimentatori automatici	Stokers (Mechanical)	Assicurazione delle caldaie (Compagnie d')	Boiler Insurance Companies	Caldaie (Autoclavi delle)	Boilers (Steam)
Alcune per caldaie	Boilers (Mechanical)	Assi	Axes	Caldaie a vapore	Boilers (Steam)
Alumino e prodotti d'alluminio	Aluminium and Products of Aluminium	Assi a gomito	Cranks	Calderoni	Heating Apparatus
Amianto (Articoli d')	Asbestos Goods, Fittings, etc.	Assi	Axes	Candele	Candles
Ancore	Anchor	Assi	Axes	Candele di accensione	Igniting (Electric)
Ancore a getto di sabbia per pulire	Sand Blast Machines	Assi	Axes	Candele	Candles
Apparecchi ausiliari di marina	Marine Auxiliaries	Assi	Axes	Candele	Candles
Apparecchi da palombari	Diving Apparatus	Assi	Axes	Candele	Candles
Apparecchi d'alaggio	Haulage Plants	Assi	Axes	Candele	Candles
Apparecchi d'avviamento dei motori e accessori	Motor Starters and Accessories	Assi	Axes	Candele	Candles
Apparecchi d'essiccazione	Drying Apparatus	Assi	Axes	Candele	Candles

[illegible]

Italiano.	Inglese.	Italiano.	Inglese.	Italiano.	Inglese.
Legno da costruzione ..	Timber	Metalli (acciai speciali)	Metals (Alloy Steels)	Prodotti chimici (Im-	Chemical Works (Plant
Legno fogliato triplo ..	Wood (three-ply)	Metalli Antiruggine ..	Metals (Antirust)	pianti per la fabri-	for)
Lieve per alzare le rotelle ..	Wheels (light)	Micrometri ..	Measuring Machines	Pulegge di ghisa ..	Pulleys (Cast-iron)
Livellazione (Strumenti di)	Leveling Instruments	Miniere di carbone ..	Coal Mines	Pulegge di legno ..	Pulleys (Wood)
Locomobili ..	Engines (portable)	Miniere di carbone (Im-	Coal Mines (Im-	Pulegge in ferro e acciaio ..	Pulleys (Wrought-iron and Steel)
Locomotive ..	Engines (locomotive)	Miniere di carbone (Im-	Coal Mines (Im-	Puntine etc. (Macchine per fare ..)	Nails (Wire, &c.), Ma-
Locomotive (Accessori per)	Engines (locomotive)	Miniere di carbone (Im-	Coal Mines (Im-	Punzonatrici e cesoie ..	Punching and Shearing
Lubrificante per cinghie ..	Lubricants (belts)	Modellisti ..	Model Makers	Quadranti ..	Dials
Lubrificanti per macchine ..	Lubricants (machines)	Mole da affilare ..	Grindstones	Quadri e apparecchi ad ..	Switchboards and Ac-
Lubrificanti ..	Lubricants	Molini per farina ..	Flour Mills	distribuzione ..	cessories
Macchine a vapore per ..	Steam-cultivating Ma-	Molini da macinare ..	Grinding Mills	Raffreddamento ad ac-	Water - cooling Plant
Macchine a vapore fisse ..	Engines (stationary)	Molli meccanici (Fa-	Mechanical (Fa-	qua (Torri e appa-	(towers) Cooling Towers
Macchine a vapore marine ..	Engines (marine)	Molli per colori, olio, ..	Paint, Oil, Mortar,	Rame in lingotti, verghe ..	Copper Ingots, Bars and
Macchine da saldare ..	Welding and Cutting	Molle ..	Coils	lastre ..	Sheets
Macchine da ghiaio ..	Ice-making Machines	Molle ad elica (Macchine ..	Springs for Making)	Ranieri ..	Coppersmiths
Macchine da scrivere ..	Typewriters	Motore (Macchine per ..	Engines (petrol)	Regolatori delle mac-	Governors (Engine)
Macchine d'estrazione ..	Engines (winding)	Motore ad aria calda ..	Engines (hot air)	chine ..	
Macchine e strumenti ..	Engines (winding)	Motore a benzina ..	Engines (gas)	Riduzione di velocità ..	Gearing (speed-reducing)
Macchine di prova ..	Engines (tractors)	Motore a gaz ..	Engines (gas)	Riscaldatori ..	Heaters
Macchine di trazione ..	Engines (tractors)	Motore a petrolio ..	Engines (oil)	Riso (Impianti per sgu-	Rice-dressing Machin-
Macchine e impianti ..	Engines (factories)	Motore elettrico ..	Engines (electric)	sciare e lavorare il)	ery
Macchine per fucine ..	Engines (factories)	Munizioni ..	Ammunition	Ritagli di cotone ..	Waste (Cotton)
Macchine per utensili ..	Engines (factories)	Navigazione marittima ..	Shipping and Trans-	Rivestimento gal-	Electroplating
Macchine per appretto ..	Engines (factories)	ma e agenti di trans-	port Agents	vanico, verniciatura, ..	quering, Bronzing
Macchine per coniare ..	Engines (factories)	port ..		bronzatura ..	(Lining)
Macchine per la fabri-	Engines (factories)	Oli e grassi lubrificanti ..	Oils (lubricants)	Rivestimenti dei freni ..	Brake and
Macchine per la fabri-	Engines (factories)	Oli e materie lubrificanti ..	Oils (lubricants)	Robineti (Valvole da ..	Cocks (valve) Valves, Gas,
Macchine per la fabri-	Engines (factories)	Orologi ..	Watches	gazz, vapore, acqua, ..	Steam, Water, etc.)
Macchine per la fabri-	Engines (factories)	Ottone (Fonderie e pezzi ..	Brass Foundries and	Robineti per acqua di ..	Steam Traps
Macchine per la fabri-	Engines (factories)	lavorati)	Brass Finishers	condensazione ..	Stonebreakers
Macchine per la fabri-	Engines (factories)	Pale e vanghe ..	Shovels and Spades	Rompipetre ..	(towers) Disintegra-
Macchine per la fabri-	Engines (factories)	Pali, paratie e cappe ..	Piles, Sheet Steel Piling	Rotale di acciaio e di ..	Rails (Steel and Iron)
Macchine per rompere ..	Engines (factories)	da pali ..	Poles, Posts and Stand-	rotaimi, ritagli ..	Scrap Metal
Macchine per la lavora-	Engines (factories)	Pali, Sostegni ..	ards	Ruggine (Prodotti anti-	Rust Preventive
Macchine per la lavora-	Engines (factories)	Pallizzate diverse ..	Fencing	Rulli compressori stra-	Road Rollers (Steam)
Macchine per miniere ..	Engines (factories)	Paraurti; tamponi ..	Buffers	dali ..	
Macchine per il tratta-	Engines (factories)	Parafulmini ..	Lightning Conductors	Ruote per ferrovie ..	Railway Wheels
mento delle foglie di te				Ruote d'ingranaggio ..	Gearing (wheels)
					Geared

[illegible]

Italiano.	Ingl.	Italiano.	Ingl.	Italiano.	Ingl.
Timoncini (Apparati per la manovra a distanza del)	Steering Gear	Tubi di ferro e di acciaio	Pipes (Wrought Iron and Steel), <i>vedi inoltre</i>	Tubi di ghisa (Fonderie)	Iron Pipes (Cast Iron)
Torchi per olio	Oil Mill Machinery	Tubi di ottone e di rame	Tubes (Brass & Copper)	Tubi grandi in lamiera	Large Pipes
Torchi idraulici	Hydraulic Presses	Tubi di ferro	Iron Pipes	Tubi indicatori di livello	Level Gauges
Torni	Lathes (<i>vedi</i> Machine Tools)	Tubi (Macchine per fabbricare)	Tube-making Machinery	Tubi (ogni metallo salvo il ferro)	Tubes (Non-Ferrous)
Torpediniere	Torpedo Boats	Tubi a serpentino	Coils (Pipe and Tube)	Turbine	Turbines
Tramvie e materiale per	Tramways and Framway Plant	Turbine ad acqua	Water-wheels	Turbine a vapore e accessori	Steam Turbines and Fittings
Trapani	Drilling Machines (<i>vedi</i> Machine Tools)	Utensili a mano	Tools (Hand and Small)	Utensili e lettrici	Electric Tools
Trasformatori	Transformers	Utensili pneumatici	Pneumatic Tools	Utensili usati	Second-hand Tools
Trasmettitori d'ordini	Telegraphs (Engine and Steering)	Vagonetti scaricatori	Wagons (Tip)	Vagoni automotori	Self-Propelled motive Engines—Locomotives
Trasmissioni ad ingranaggio, alberi, etc.	Mill-gearing, Shafting, etc.	Vagoni (Costruttori di)	Wagon (Railway) Builders		
Trasmissioni, accessori	Shafting and Shaft Fittings (<i>vedi inoltre</i> Plummer Blocks, Bearings)				
Trasportatori	Conveyors (<i>vedi inoltre</i> Transporters, Runways)				
Trasportatori, caricatori e scaricatori del carbone	Coal-handling Plant				
Traverse per ferrovie	Sleepers (Railway) (<i>vedi inoltre</i> Permanent Way)				
Travi	Girders				
Travillate di ferro e acciaio	Isists Rolled (Iron and Steel)				
Triturazione e essiccazione del carbone (Impianti per)	Coal Pulverising and Drying Plant				

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- 3-1903. Influence of Gauge Length and Section of Test Bar on the Percentage of Elongation, Report on, by Professor W. C. UNWIN, F.R.S.
- ✓ 4-1921. Channels and Beams, properties of
- ✓ 7-1919. Copper Conductors, Insulated Annealed, for Electric Power and Light.
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- 10-1904. Pipe Flanges, Tables of.
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 - Part IV. (1921).—Steel Forgings, Blooms and Castings.
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